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MINERAL INDUSTRY SURVEYS

U. S. DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

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JANUARY 1973

PETROLEUM PRODUCTS SURVEY
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MOTOR GASOLINES, SUMMER 1972

MOTOR GASOLINES, SUMMER 1972

by

Ella Mae Shelton

Bartlesville Energy Research Center, Bureau of Mines
U.S. Department of the Interior, Bartlesville, Okla.

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INTRODUCTION

The properties of motor fuels sold through service stations in the United States are reported in accordance with a cooperative agreement between the American Petroleum Institute and the Bureau of Mines of the United States Department of the Interior. By agreement with the American Petroleum Institute, identification of the data by item number is confidential.

This report presents analytical data for 5,164 samples that represent the products of 57 companies. Company representatives collected the samples during June, July, and August 1972. As in previous surveys, the gasolines covered by this survey include those from both large and small suppliers. Laboratories of various refiners, motor manufacturers, and chemical companies obtained and submitted the data to the Bureau of Mines for compilation. Motor-gasoline survey reports published during the past 10 years are listed on page 5.

Analytical tests required for a complete gasoline analysis were not available for many of the samples. Tests in this category, the number of test results available and used in this report, and the percent of the total samples represented for that test include the following:

Test	Number of samples used	Percent of total samples
Gravity	4,062	79
Sulfur content	1,354	26
Lead content	3,744	73
Distillation	3,086	60
Vapor pressure	3,055	59

SUMMARY

The characteristics of motor gasolines for summer 1972 are summarized in table 1, and for comparison, those for summer 1971 are shown in table 2. Trends of some of the more important characteristics for several years are shown in figures 1 and 2. The following data show trends of national average octane numbers during recent years:

	Regular-price		Premium-price	
	Octane number		Octane number	
	Research	Motor	Research	Motor
Winter 1970-71	93.9	86.4	99.8	92.2
Summer 1971	94.0	86.3	99.8	92.3
Winter 1971-72	94.0	86.5	99.8	92.3
Summer 1972	94.1	86.4	99.8	92.2

Tables 3 and 4 show regional average octane numbers of regular- and premium-price fuels.

Data for third grade, intermediate grade, and super-premium gasolines are included in table 5.

DISCUSSION OF DATA

Terms used in the surveys have the following meanings:

District: The designation of a marketing area for collecting samples and data. The present arrangement of 17 districts, developed by the CFR Committee, 1/ was selected with reference to the specifications on motor gasolines, refinery locations, population centers, and arteries of commerce such as navigable rivers. The States or parts of States in each district are indicated in the headings of table 3 and are shown in figure 5.

Brand: The gasoline sold within a given price group and by a given trade name.

Item: The index number assigned to a given brand in a given district. The data for each item represent the average of those submitted for that brand in that district. The number of samples represented follows the item number.

1/ Coordinating Fuel and Equipment Research Committee (formerly the Coordinating Fuel Research Committee) of the Coordinating Research Council, Inc. From 1935 to 1948 the motor-gasoline surveys were conducted under a cooperative agreement between the Coordinating Research Council and the Bureau of Mines.

Sample: The supply of gasoline obtained at the service station and analyzed in the laboratory.

Table 3 presents the following data by districts: gravity in degrees API, sulfur, gum, lead, research- and motor-method octane numbers, Reid vapor pressure, and distillation characteristics of the motor fuels collected. The tests were made according to American Society for Testing and Materials standards. 2/

Corrosion test results are not included in the district tables as all the reported numbers are "1," according to the corrosion scale given in table 1 of ASTM D130. 2/

Gum test data are reported to the nearest whole number. The distillation temperatures, corrected to baromatric pressure at 760 mm Hg, are those for percent evaporated.

Average values follow the tabulated data in table 3 for the respective grades of fuel shown in each district. The averages of the various properties were computed without reference to the total number of samples represented by each item.

The district averages from table 3 are shown in table 4 with the number of brands and number of samples for regular- and premium-price gasoline in each district. The national averages for each of the properties of fuels sold in each of the 17 districts are given at the end of the table.

Table 5 shows data for third grade (sub-regular), intermediate grade, and super-premium motor gasolines.

Figures 1 and 2 illustrate trends in the national averages of certain properties of regular- and premium-price gasolines, respectively, since the summer of 1946. Averages for the winter surveys are plotted on the lines that represent the years and for the summer surveys between the lines. Octane-number points are connected for successive surveys, but those for Reid vapor pressure and distillation temperatures are plotted separately for summer and winter surveys. Charts that show plots of these properties from 1935 (except winter 1941-42 and summer 1942) are presented in the survey report on motor gasolines for winter 1964-65 and preceding reports. 3/

2/ American Society for Testing and Materials, 1971 Annual Book of ASTM Standards, Part 17, Petroleum Products--Fuels; Solvents; Burner Fuel Oils; Lubricating Oils; Cutting Oils; Lubricating Greases; Hydraulic Fluids. Philadelphia, Pa., 1,224 pp.

3/ Blade, O. C., Motor Gasolines, Winter 1964-65. Bureau of Mines Petroleum Products Survey No. 40, 38 pp. (in cooperation with the American Petroleum Institute).

Figures 3 and 4 illustrate distribution (frequency) of octane values by numbers of samples for all grades of fuel represented. Each bar represents one-half octane number.

Tables 6 and 7 show the percentages of all samples for each district at each whole octane number level, cumulated according to increasing octane number.

The districts, locations, and number of samples of gasoline represented are listed in table 8 and shown on the map in figure 5. The locations are named for the principal cities in the respective vicinities, and include suburbs and adjacent communities. The area of the circle at each location is proportional to the number of samples obtained. The summary at the end of table 8 lists by district, the number of locations, samples, and the percentages of the latter based on the total reported.

This report does not discuss the significance of the data presented. Reference may be made to the ASTM specification 4/ for motor gasoline and its appendix, "Significance of ASTM Specifications for Motor Gasoline," at a technical library.

4/ American Society for Testing and Materials, Standard Specifications for Gasoline (D 439): 1971 Annual Book of ASTM Standards, Part 17 (see footnote 2), pp. 168-177.

LIST OF MOTOR-GASOLINE SURVEY REPORTS, 1963-72

Author	Season and Year	PPS Report No.	Published	No. of Pages
In cooperation with the American Petroleum Institute				
Blade, O.C.	Summer 1963	33	Jan. 1964	35
Do.	Winter 1963-64	35	June 1964	40
Do.	Summer 1964	37	Dec. 1964	40
Do.	Winter 1964-65	40	July 1965	38
Do.	Summer 1965	43	Jan. 1966	39
Do.	Winter 1965-66	45	June 1966	38
Do.	Summer 1966	48	Dec. 1966	38
Do.	Winter 1966-67	50	June 1967	38
Do.	Summer 1967	53	Dec. 1967	38
Do.	Winter 1967-68	55	June 1968	39
Do.	Summer 1968	58	Jan. 1969	38
Do.	Winter 1968-69	60	July 1969	38
Blade, O.C. and Ella Mae Shelton	Summer 1969	63	Jan. 1970	38
Shelton, Ella Mae and C.M. McKinney	Winter 1969-70	66	Aug. 1970	47
Do.	Summer 1970	68	Jan. 1971	49
Do.	Winter 1970-71	70	June 1971	54
Shelton, Ella Mae	Summer 1971	73	Jan. 1972	59
Do.	Winter 1971-72	75	June 1972	53
Do.	Summer 1972	This report		

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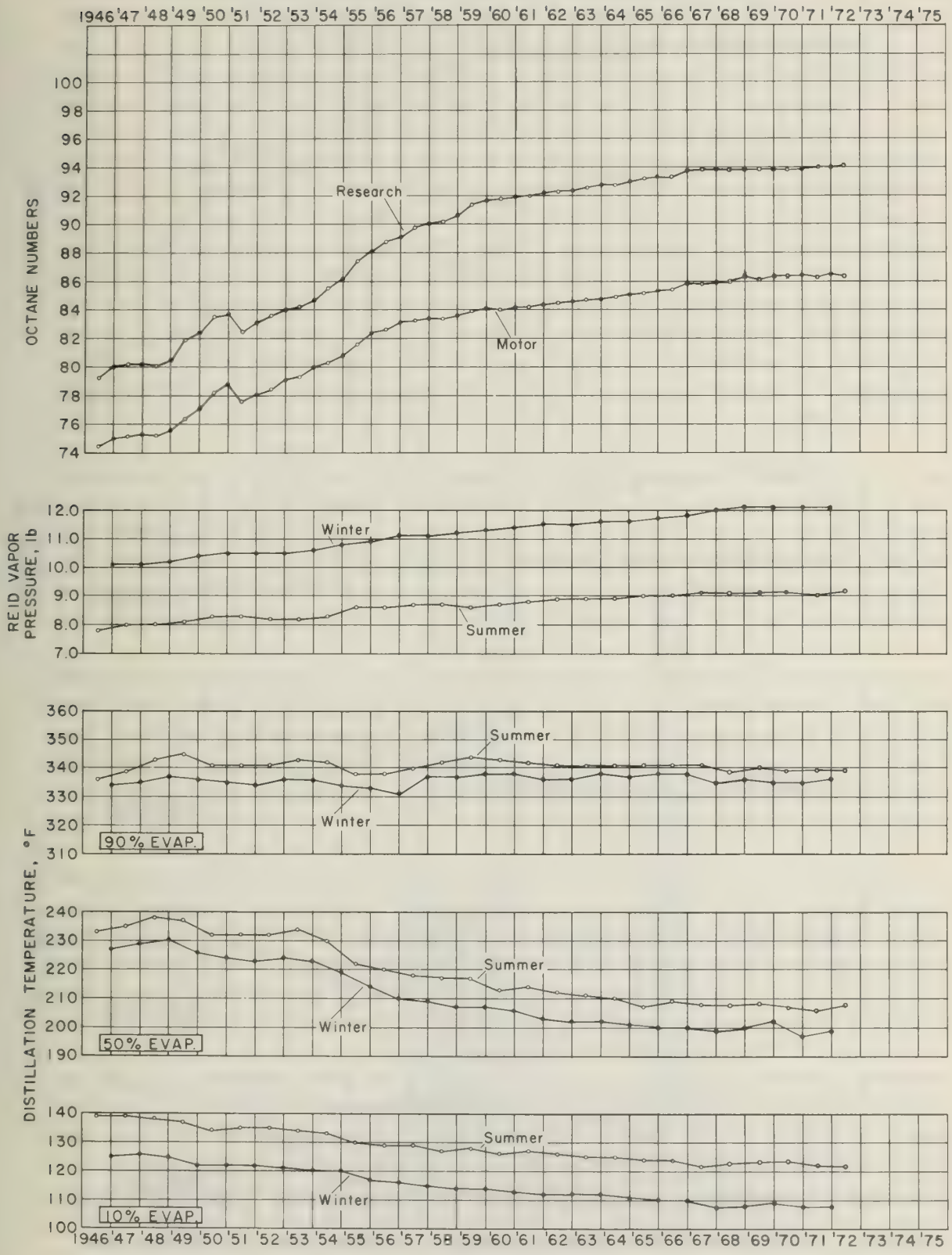

FIGURE 1.—Trends of Certain Characteristics of Regular-Price Gasolines.

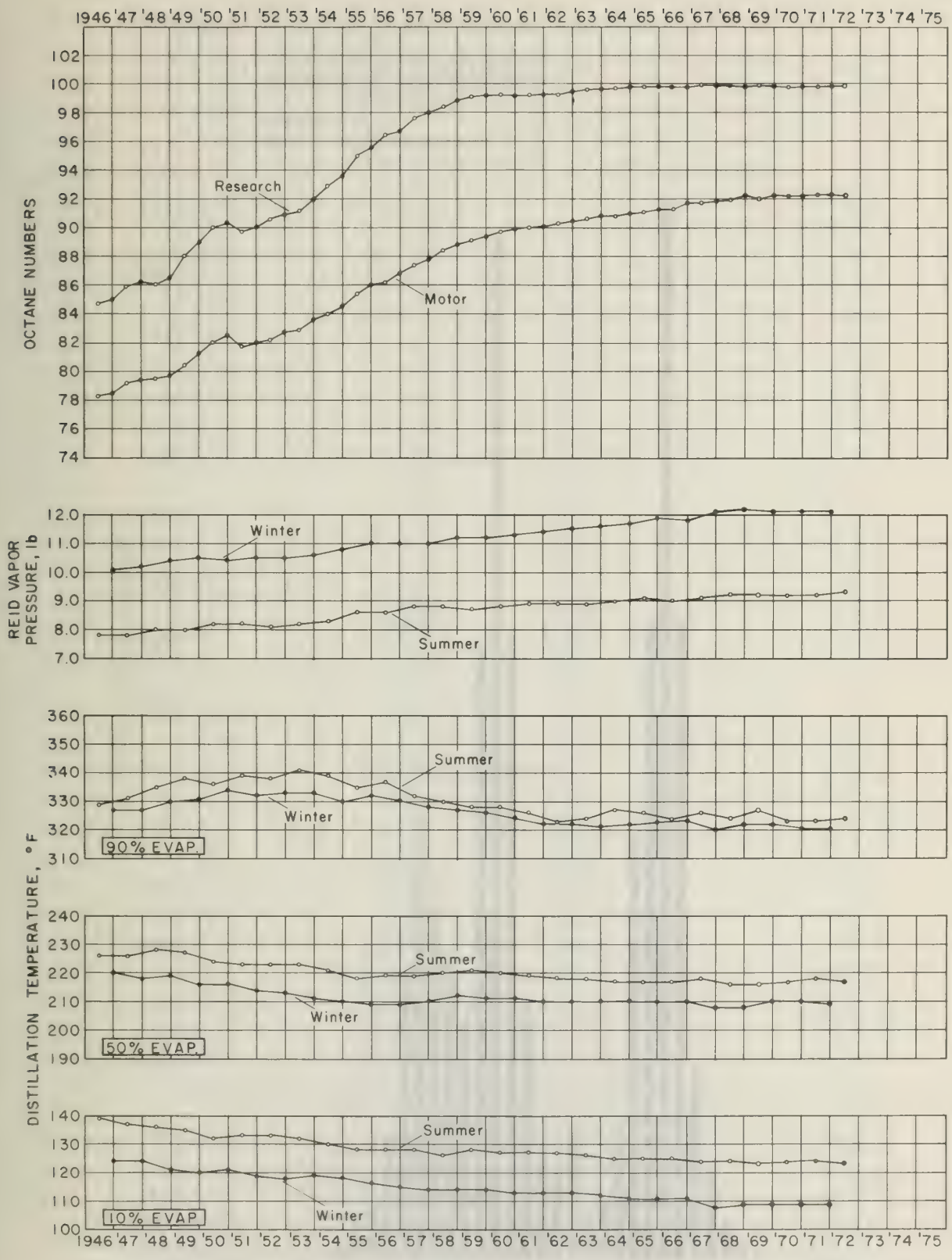

FIGURE 2.—Trends of Certain Characteristics of Premium-Price Gasolines.

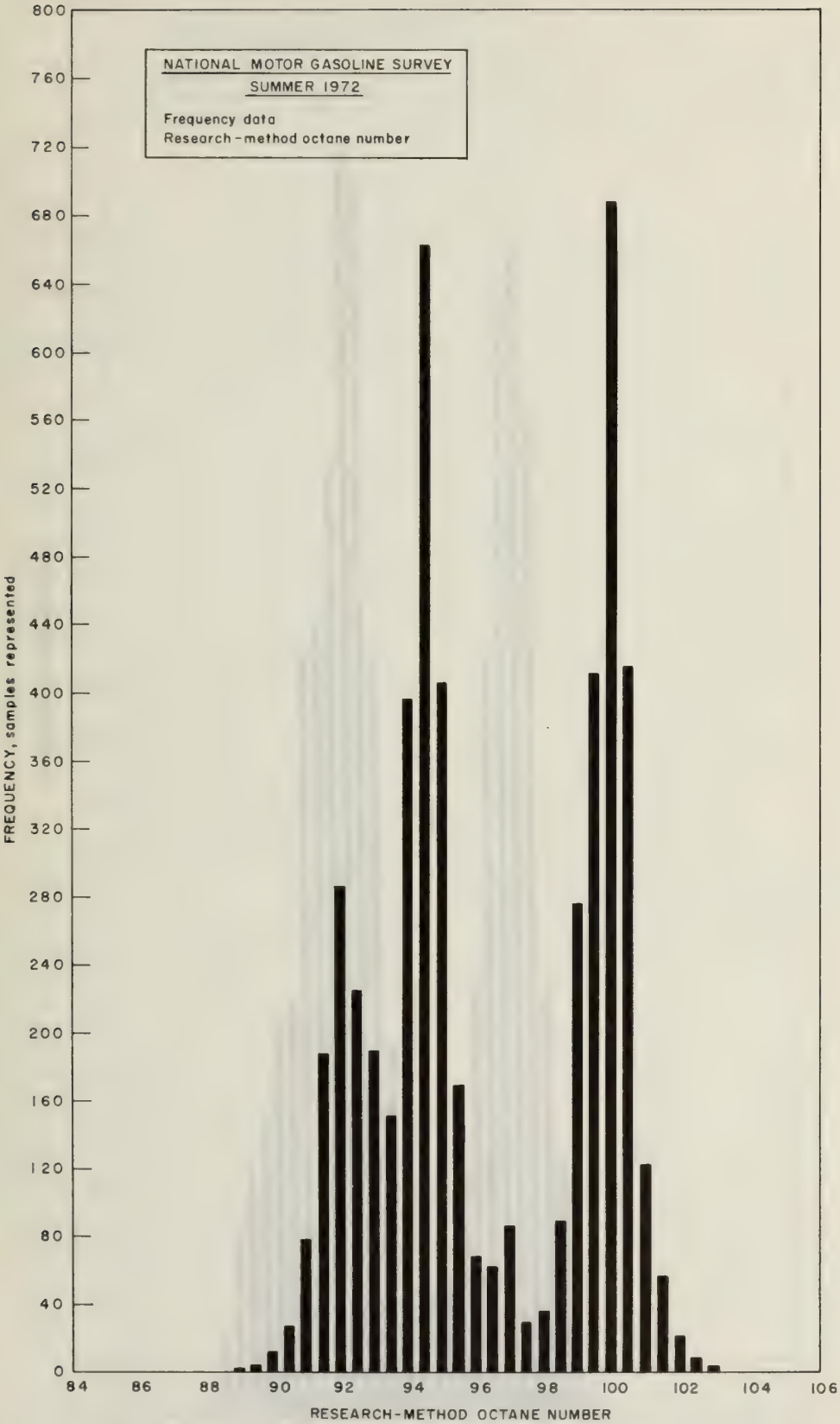

FIGURE 3.–Distribution of Research–Method Octane Numbers.

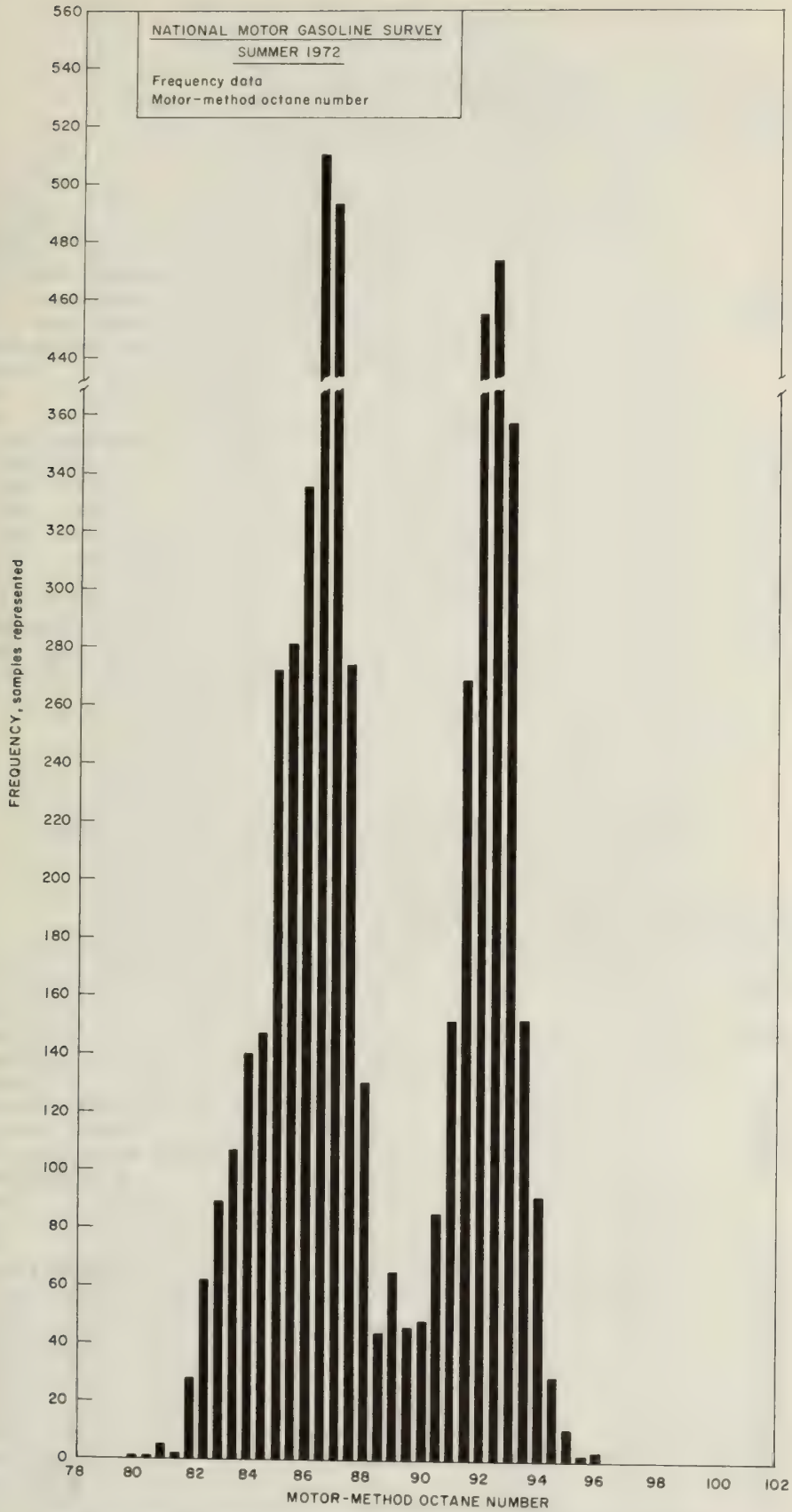

FIGURE 4.-Distribution of Motor-Method Octane Numbers.

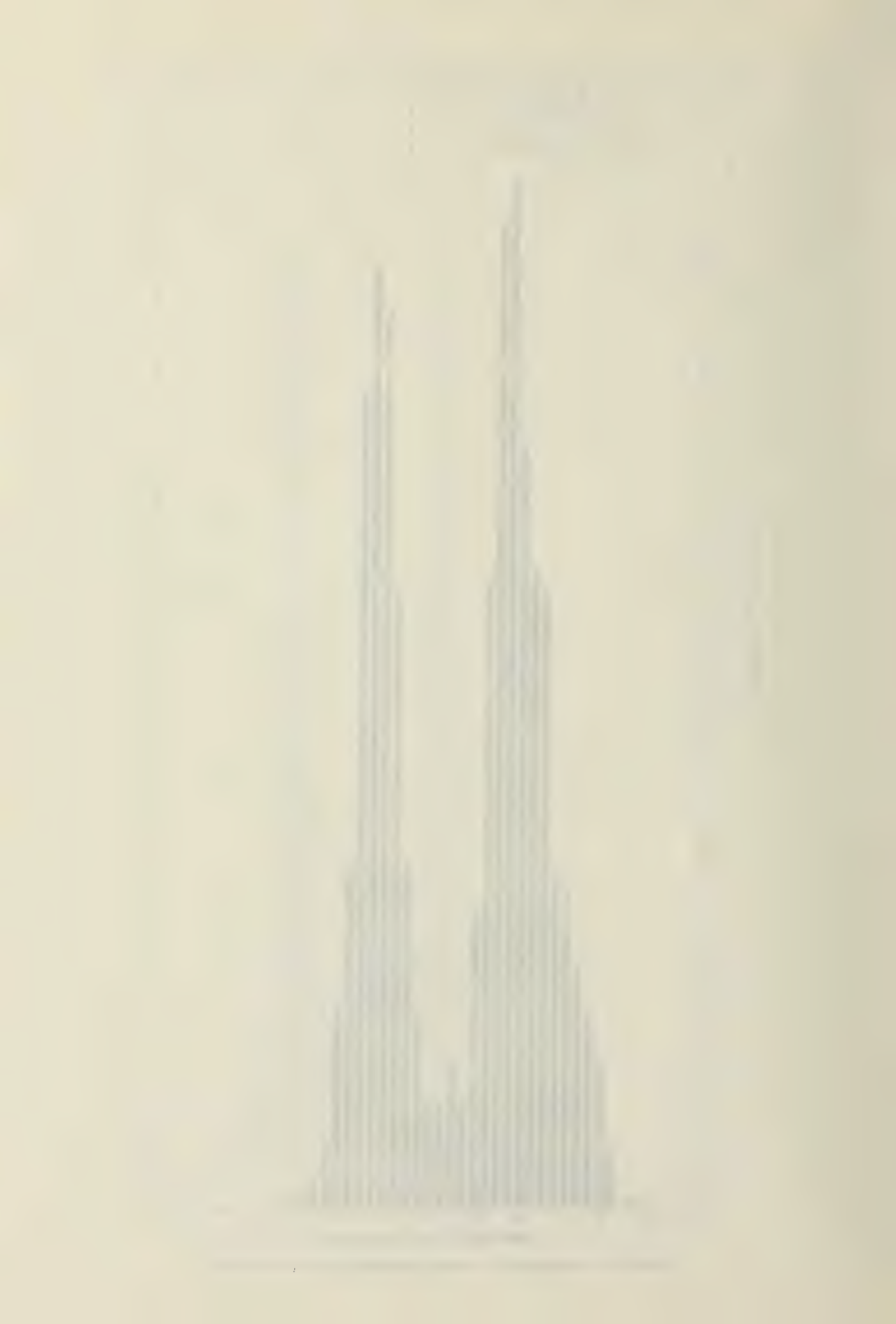

TABLE 1. - Summary of values, motor gasoline survey, summer 1972

Test	ASTM method	Regular-price gasoline Average	Premium-price gasoline Average
Gravity, °API	D287	60.5	60.7
Corrosion, No.	D130	1	1
Sulfur content, wt %	D1266	0.042	0.026
Gum, mg/100 ml	D381	1	1
Lead, g/gal.	D526	2.04	2.52
Octane number, Research	D2699	94.1	99.8
Octane number, Motor	D2700	86.4	92.2
Research + motor octane Nos./2		90.3	96.0
Reid vapor pressure, lb	D323	9.2	9.3
Distillation	D86		
Temp, °F			
IBP		92	91
5% evaporated		108	108
10% Do.		122	123
20% Do.		142	147
30% Do.		163	172
50% Do.		208	217
70% Do.		262	257
90% Do.		339	324
95% Do.		372	357
End point		411	401
Residue, vol %		0.9	0.9
Loss, vol %		1.5	1.6

TABLE 2. - Summary of values, motor gasoline survey, summer 1971

Test	ASTM method	Regular-price gasoline Average	Premium-price gasoline Average
Gravity, °API	D287	60.9	60.7
Corrosion, No.	D130	1	1
Sulfur content, wt %	D1266	0.043	0.022
Gum, mg/100 ml	D381	1	1
Lead, g/gal.	D526	2.22	2.67
Octane number, Research	D2699	94.0	99.8
Octane number, Motor	D2700	86.3	92.3
Research + motor octane Nos./2		90.2	96.1
Reid vapor pressure, lb	D323	9.0	9.2
Distillation	D86		
Temp, °F			
IBP		92	91
5% evaporated		109	108
10% Do.		122	124
20% Do.		142	148
30% Do.		162	172
50% Do.		206	218
70% Do.		260	257
90% Do.		339	323
95% Do.		372	354
End point		410	397
Residue, vol %		1.0	0.9
Loss, vol %		1.3	1.5

TABLE 3. - MOTOR GASOLINE SURVEY, SUMMER 1972
AVERAGE DATA FOR DIFFERENT BRANDS

DIST. 1 NORTHEAST
MAINE, MASS., N.H., VT., AND NORTHERN N.Y.

REGULAR-PRICE GASOLINE

ITEM	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES %	LOSS %
1	4	62.1	0.055	2	1.38	95.8	84.8	90.3	11.1	85	99	114	138	162	209	258	329	359	391	1.0	1.6
2	4	61.3	.040	1	2.50	94.5	87.1	90.8	10.0	86	102	115	133	151	193	248	331	365	413	1.0	1.6
3	6	59.5	.041	1	2.46	95.0	86.9	91.0	9.8	91	106	121	144	167	219	272	353	383	416	1.0	2.1
4	9	62.8	.023	2	1.60	94.8	86.5	90.7	10.2	86	101	113	132	153	200	259	343	376	411	1.2	1.7
5	10	57.9	.047	1	1.64	94.5	85.8	90.2	9.5	88	106	119	144	171	229	294	358	388	426	1.1	1.8
6	2	59.6	.038	2	2.25	96.1	87.1	91.6	9.4	87	99	115	136	159	208	256	335	368	420	1.0	2.0
7	3	63.2	-	-	-	94.5	89.1	91.8	10.3	95	107	117	133	151	197	269	332	351	396	.6	1.9
8	6	59.6	.031	1	1.90	95.2	86.8	91.0	9.3	89	106	115	136	157	207	277	352	386	412	.9	2.4
9	9	62.7	.034	2	2.67	94.4	87.7	91.1	9.2	89	107	119	137	156	198	264	343	373	406	1.1	1.2
10	3	60.9	.036	-	2.14	95.1	87.2	91.2	9.3	88	107	122	144	165	206	256	326	360	400	1.0	1.0
11	5	60.8	.027	1	1.86	94.4	86.6	90.5	9.6	85	99	113	133	153	200	271	347	380	418	1.0	1.7
12	8	61.7	.029	2	2.44	94.4	87.4	90.9	10.2	85	101	115	139	162	210	263	330	363	397	1.1	1.9
13	1	60.0	.021	1	3.15	94.6	88.1	91.4	9.3	89	103	117	132	149	201	275	349	375	414	1.0	1.0
14	4	60.6	.065	1	2.69	94.9	87.5	91.2	9.5	80	106	120	139	160	200	257	325	353	395	1.0	2.1
AVERAGE		60.9	.037	1	2.21	94.9	87.0	91.0	9.8	87	104	117	137	158	206	266	340	370	408	1.0	1.7
SAMPLES	74																				

TABLE 3. - MOTOR GASOLINE SURVEY, SUMMER 1972
AVERAGE DATA FOR DIFFERENT BRANDS--CONTINUED

DIST. 1 NORTHEAST--CONTINUED
MAINE, MASS., N.H., VT., AND NORTHERN N.Y.
PREMIUM-PRICE GASOLINE

ITEM	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES %	LOSS %
15	4	51.1	0.012	1	* .00	101.2	90.2	95.7	10.1	81	95	115	148	181	240	265	304	326	371	0.9	2.1
16	4	60.6	.008	1	2.59	100.2	93.1	96.7	9.2	89	103	116	136	160	213	258	330	364	410	1.0	1.5
17	4	61.8	.015	1	3.31	100.5	92.4	96.5	9.4	92	110	126	150	174	215	254	326	351	408	1.0	2.0
18	8	63.6	.011	1	2.57	101.2	92.7	97.0	10.4	85	100	111	131	154	205	250	314	343	381	1.2	1.5
19	9	58.8	.006	1	2.04	100.0	91.5	95.8	9.7	88	102	115	136	161	220	266	317	346	396	1.0	1.9
20	1	59.4	.020	2	3.26	99.9	91.3	95.6	9.8	85	98	112	135	158	205	265	309	342	395	1.0	2.0
21	3	59.1	-	-	-	99.4	92.1	95.8	10.3	97	107	117	133	152	206	276	319	336	376	.6	2.2
22	6	56.8	.006	1	2.41	100.5	92.4	96.5	9.7	87	104	114	136	163	223	274	326	364	395	.9	1.7
23	8	58.0	.011	1	2.93	100.1	92.9	96.5	9.6	87	105	117	136	161	216	271	324	347	387	1.1	1.5
24	3	59.9	.023	-	2.72	100.5	92.4	96.5	9.8	86	104	118	142	165	216	265	320	346	388	.9	1.1
25	5	59.8	.017	2	3.05	100.8	92.4	96.6	9.4	87	104	118	139	162	212	257	328	364	405	1.0	1.7
26	8	60.6	.022	1	2.78	100.2	92.1	96.2	10.6	85	101	117	141	167	216	260	321	352	387	1.2	1.8
27	6	58.8	.001	-	3.06	100.4	92.4	96.4	10.2	87	103	117	138	161	216	268	329	354	386	1.1	1.6
28	1	56.5	.014	2	2.92	101.4	92.1	96.8	8.8	82	101	117	143	173	231	272	304	332	378	1.0	1.0
29	3	58.8	.005	-	3.05	100.5	92.4	96.5	8.8	90	111	124	146	166	216	271	316	336	380	.7	1.3
AVERAGE		58.9	.012	1	2.82	100.5	92.2	96.4	9.7	87	103	117	139	164	217	265	319	347	390	1.0	1.7
SAMPLES	73																				

* Not included in average for lead.

TABLE 3. - MOTOR GASOLINE SURVEY, SUMMER 1972
AVERAGE DATA FOR DIFFERENT BRANDS--CONTINUED

DIST. 2 MID-ATLANTIC COAST
R.I., CONN., N.J., DEL., MD., VA., CENTRAL AND SOUTHERN N.Y., AND EASTERN PA.

REGULAR-PRICE GASOLINE

ITEM	SAMPLES	GR., ASTM D287 API	SULF., ASTM D1266 WT %	GUM, ASTM D381 MG	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES LOSS %	%
30	19	60.7	0.052	1	1.83	95.2	85.6	90.4	9.9	88	107	119	140	161	207	265	341	371	407	1.0	1.5
31	18	60.1	.038	1	1.63	94.6	86.5	90.6	10.3	88	102	115	137	158	205	258	334	370	413	1.1	2.2
32	17	60.0	.035	1	2.31	94.8	87.4	91.1	9.8	88	105	119	142	165	213	266	343	373	415	.9	1.9
33	10	59.7	.029	2	2.29	94.6	87.4	91.0	9.8	87	103	117	139	161	206	257	339	371	409	.9	1.9
34	25	60.8	.028	2	1.98	95.4	86.6	91.0	9.8	87	103	116	137	158	205	267	355	387	414	1.1	1.7
35	25	58.1	.022	1	1.15	94.8	86.2	90.5	9.6	89	104	120	146	172	227	290	359	388	422	1.2	1.9
36	11	60.7	.039	1	1.92	95.0	86.6	90.8	9.3	95	111	123	142	162	208	271	352	382	422	1.1	1.7
37	1	60.4	.045	1	2.13	94.4	87.1	90.8	10.0	95	105	113	130	148	198	259	328	360	399	1.0	3.0
38	20	58.7	.025	1	1.72	94.7	86.5	90.6	8.1	94	114	128	148	169	218	270	337	365	399	1.1	1.3
39	24	59.1	.058	1	2.06	94.5	86.5	90.5	9.0	92	111	125	148	171	219	275	346	377	417	1.1	1.4
40	9	59.8	.046	1	1.55	95.4	86.6	91.0	10.2	86	101	115	136	158	204	258	325	355	396	1.0	1.7
41	22	60.7	.028	2	1.97	94.8	87.1	91.0	9.7	88	101	115	135	155	205	267	345	376	410	1.0	2.0
42	26	60.5	.013	2	2.26	94.5	87.2	90.9	9.4	90	108	123	146	169	213	264	331	361	397	1.1	1.5
43	3	61.1	-	-	2.12	95.2	86.0	90.6	9.3	88	109	124	146	166	206	260	350	384	408	.9	1.1
44	9	60.4	.031	1	2.06	94.8	87.3	91.1	9.5	87	107	118	136	153	203	272	346	372	408	1.0	2.0
45	3	59.8	-	-	2.35	94.8	87.2	91.0	9.6	86	106	122	147	166	214	269	346	380	420	.8	1.2
46	16	60.9	.041	1	2.49	95.0	87.1	91.1	10.1	87	103	116	137	157	201	258	336	369	411	.9	2.0
AVERAGE		60.1	.035	1	1.99	94.9	86.8	90.9	9.6	89	106	119	141	162	209	266	342	373	410	1.0	1.8
SAMPLES	258																				

TABLE 3. - MOTOR GASOLINE SURVEY, SUMMER 1972
AVERAGE DATA FOR DIFFERENT BRANDS--CONTINUED

DIST. 2 MID-ATLANTIC COAST--CONTINUED
R.I., CONN., N.J., DEL., MD., VA., CENTRAL AND SOUTHERN N.Y., AND EASTERN PA.

PREMIUM-PRICE GASOLINE

ITEM	SAMPLES	GR., ASTM D287 API	SULF., ASTM D1266 WT %	GUM, ASTM D381 MG	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES %	LOSS %
47	17	51.4	0.010	1	0.01	101.4	90.2	95.8	10.3	86	102	120	150	185	233	256	306	333	375	0.9	2.2
48	17	59.0	.015	1	2.49	99.8	93.2	96.5	10.2	88	103	116	136	158	215	278	340	367	413	1.1	1.8
49	17	61.4	.020	1	2.79	99.9	92.6	96.3	9.9	89	105	122	146	171	217	259	332	364	412	1.0	1.7
50	10	61.4	.013	1	2.82	100.1	92.6	96.4	9.7	87	106	118	144	169	217	258	329	362	403	.9	1.9
51	23	62.7	.017	1	2.55	100.9	92.4	96.7	9.8	89	105	118	136	157	201	246	318	353	395	1.0	1.4
52	25	60.1	.008	1	1.98	100.2	92.1	96.2	9.5	89	106	120	142	167	223	265	319	349	394	1.1	1.6
53	9	60.6	.015	1	2.64	99.5	92.2	95.9	9.8	93	106	119	139	162	216	259	327	359	412	.7	1.8
54	1	56.6	.016	1	2.84	101.3	91.7	96.5	9.5	88	109	121	145	172	230	270	303	324	367	1.0	2.0
55	18	56.5	.013	1	1.99	100.1	91.9	96.0	8.3	95	116	134	160	184	229	264	320	350	391	1.0	1.4
56	22	57.7	.032	1	2.34	100.3	92.6	96.5	9.3	90	108	124	150	175	222	264	317	348	393	1.0	1.3
57	9	58.9	.018	0	2.78	100.4	91.8	96.1	10.5	85	102	117	139	163	213	260	318	343	389	.9	1.9
58	19	59.7	.021	1	2.90	100.4	92.1	96.3	9.5	90	106	121	142	165	215	259	333	368	416	.9	1.8
59	24	61.4	.009	2	2.76	100.4	92.7	96.6	9.7	88	106	122	149	175	220	255	309	339	382	1.1	1.6
60	14	59.5	.021	1	2.87	100.4	92.4	96.4	9.6	88	106	120	143	165	213	260	320	344	375	.9	1.4
61	3	58.7	-	-	2.69	100.3	93.2	96.8	9.6	86	108	124	146	169	216	264	320	344	392	.5	1.0
62	9	56.8	.013	0	2.88	101.2	92.3	96.8	9.0	89	108	123	147	173	230	267	306	328	367	1.0	1.6
63	3	61.7	-	-	2.87	100.3	92.8	96.6	9.8	88	106	124	150	174	218	262	336	374	410	.8	1.7
64	17	59.5	.016	1	2.83	100.3	92.7	96.5	10.1	87	104	118	142	165	216	261	324	353	398	.9	1.9
AVERAGE		59.1	.016	1	2.50	100.4	92.3	96.4	9.7	89	106	121	145	169	219	262	321	350	394	.9	1.7
SAMPLES	257																				

TABLE 3. - MOTOR GASOLINE SURVEY, SUMMER 1972
AVERAGE DATA FOR DIFFERENT BRANDS--CONTINUED

DIST. 3 SOUTHEAST
N.C., S.C., GA., FLA., ALA., AND EASTERN TENN.

REGULAR-PRICE GASOLINE

ITEM	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES %	LOSS %
65	19	60.3	0.028	2	2.28	95.1	86.7	90.9	9.5	92	109	122	142	164	206	263	339	368	400	1.1	1.5
66	3	60.7	-	-	2.47	94.6	87.3	91.0	9.7	94	108	119	138	158	200	256	342	377	422	1.1	1.4
67	4	59.0	.041	1	2.16	94.5	87.1	90.8	9.6	92	108	120	141	164	210	265	344	363	412	.8	2.5
68	8	59.7	.042	1	2.51	94.2	86.9	90.6	8.8	89	104	119	142	164	214	266	347	375	416	.9	2.0
69	11	59.1	.054	1	1.88	95.3	86.6	91.0	9.2	90	107	118	136	156	205	273	361	391	421	1.2	1.4
70	23	59.8	.078	1	1.91	94.6	86.5	90.6	9.4	90	105	118	138	159	209	269	341	373	413	1.0	1.4
71	1	56.7	.043	2	1.44	95.7	85.6	90.7	9.4	93	110	122	145	169	220	276	350	386	422	1.0	2.0
72	13	62.4	.015	1	2.02	94.5	88.4	91.5	9.1	95	109	120	136	151	192	260	330	350	394	1.0	1.6
73	21	60.4	.021	1	2.34	94.6	87.0	90.8	9.1	93	110	123	143	164	209	267	351	380	413	1.1	1.3
74	1	59.7	.022	1	2.25	94.4	87.1	90.8	8.7	90	103	120	140	160	204	251	341	379	420	1.0	2.0
75	1	59.3	.040	2	2.59	94.1	86.1	90.1	9.3	88	96	111	133	154	201	260	343	-	417	1.0	4.0
76	1	62.1	.044	1	2.76	94.4	86.9	90.7	8.9	84	95	110	130	148	195	254	342	374	418	1.0	2.0
77	6	60.7	.050	2	2.48	94.9	87.7	91.3	9.2	92	110	119	140	162	208	261	339	363	411	.9	1.4
78	19	60.4	.017	1	2.19	94.1	87.3	90.7	9.1	93	110	123	142	161	204	258	347	382	423	1.1	1.6
79	4	60.7	.027	1	2.29	96.1	87.8	92.0	9.3	87	100	115	135	155	204	264	342	374	419	1.0	2.0
80	26	61.1	.022	0	2.16	94.3	87.0	90.7	9.5	93	108	122	143	164	209	260	326	355	393	1.1	1.6
81	8	60.3	.068	1	2.19	94.5	86.3	90.4	9.0	89	104	117	138	159	210	264	340	377	424	1.0	1.7
82	3	60.9	-	-	2.81	94.4	86.0	90.2	9.3	92	105	118	139	158	199	260	332	360	400	1.0	1.0
83	3	59.8	-	-	2.38	94.3	86.7	90.5	9.0	90	107	119	140	162	208	260	333	362	405	.6	1.4
84	5	59.9	.019	1	2.24	94.3	87.6	91.0	9.3	94	110	123	142	162	209	269	345	377	412	1.0	2.0
AVERAGE		60.2	.037	1	2.27	94.6	86.9	90.8	9.2	91	106	119	139	160	206	263	342	372	413	1.0	1.8
SAMPLES	180																				

TABLE 3. - MOTOR GASOLINE SURVEY, SUMMER 1972
AVERAGE DATA FOR DIFFERENT BRANDS--CONTINUED

DIST. 3 SOUTHEAST--CONTINUED
N.C., S.C., GA., FLA., ALA., AND EASTERN TENN.

PREMIUM-PRICE GASOLINE

ITEM	SAMPLES	GR., ASTM D287 API	SULF., ASTM D1266 WT %	GUM, ASTM D381 MG	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES %	LOSS %
85	18	52.3	0.005	1	* .00	101.6	90.6	96.1	10.1	90	105	122	153	187	231	252	309	336	373	1.0	2.1
86	3	59.1	-	-	3.11	99.5	92.8	96.2	9.8	91	103	115	135	155	209	263	330	353	407	.3	1.7
87	4	60.9	.018	3	2.98	99.6	92.2	95.9	9.5	91	108	122	146	169	214	257	334	368	411	1.0	1.5
88	7	60.6	.050	0	2.85	99.8	92.5	96.2	9.8	90	103	117	139	164	213	257	339	357	417	.7	2.3
89	12	63.1	.019	1	2.17	100.5	92.4	96.5	9.1	91	109	122	141	163	212	250	314	346	389	1.1	1.3
90	22	62.4	.017	1	2.24	100.3	92.1	96.2	9.4	92	108	121	142	166	210	247	311	344	389	1.1	1.4
91	1	60.7	.013	1	2.98	99.7	92.4	96.1	9.6	95	112	124	146	169	215	259	334	364	418	1.0	2.0
92	12	61.5	.005	1	2.72	99.6	92.8	96.2	9.0	94	109	118	135	153	206	258	313	335	376	.7	1.7
93	20	57.6	.002	0	2.23	100.4	92.2	96.3	9.3	91	109	124	148	176	228	265	325	355	398	1.1	1.2
94	1	63.5	.010	1	2.73	100.1	91.5	95.8	9.4	88	103	123	144	166	213	265	334	363	416	1.0	2.0
95	1	61.2	.014	1	2.97	99.7	92.1	95.9	9.9	89	105	118	141	163	209	252	332	360	401	1.0	2.0
96	1	60.1	.014	1	3.30	100.2	92.8	96.5	9.8	82	93	106	126	148	198	253	328	360	410	1.0	2.0
97	5	61.3	-	-	2.70	99.6	92.4	96.0	9.6	88	107	120	141	165	216	255	330	366	408	1.1	1.4
98	18	58.5	.009	2	2.34	100.2	92.0	96.1	9.3	92	109	122	141	162	208	269	338	364	409	1.0	1.7
99	3	59.2	.017	1	3.08	100.5	91.9	96.2	8.8	84	98	114	137	160	211	256	329	362	411	1.0	2.0
100	25	61.2	.012	2	2.74	99.9	92.4	96.2	9.7	91	107	124	151	177	222	258	311	337	378	1.0	1.7
101	9	60.8	.023	1	3.06	99.8	92.2	96.0	9.4	89	104	116	136	159	212	259	322	348	404	.8	1.6
102	3	62.6	-	-	3.36	100.4	92.9	96.7	9.1	95	111	126	151	173	210	240	310	341	390	.5	1.5
103	3	61.1	-	-	2.88	99.7	92.8	96.3	8.8	87	104	117	141	165	210	251	327	359	414	.4	1.6
104	5	60.5	.015	2	3.16	99.8	92.5	96.2	9.5	86	103	115	134	157	210	258	331	362	408	.8	2.2
AVERAGE		60.4	.015	1	2.82	100.0	92.3	96.2	9.4	90	106	119	141	165	213	256	325	354	401	.9	1.7
SAMPLES	173																				

* Not included in average for lead.

TABLE 3. - MOTOR GASOLINE SURVEY, SUMMER 1972
AVERAGE DATA FOR DIFFERENT BRANDS--CONTINUED

DIST. 4 APPALACHIAN
OHIO, W. VA., WESTERN N.Y., WESTERN PA., EASTERN KY., AND PART OF MD.

REGULAR-PRICE GASOLINE

ITEM	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES %	LOSS %
105	7	61.3	0.042	0	2.43	94.7	87.3	91.0	9.1	91	111	122	141	160	202	255	334	371	412	0.8	1.5
106	8	61.5	.027	1	2.70	94.5	87.6	91.1	9.1	92	112	125	144	163	204	260	348	385	426	1.0	1.3
107	14	60.2	.050	1	1.75	94.5	86.6	90.6	10.3	87	105	118	139	161	209	265	344	378	420	.9	1.2
108	3	60.7	.026	-	1.96	94.7	87.5	91.1	10.6	82	96	110	133	158	204	259	331	355	400	.7	.8
109	2	60.6	.043	1	2.15	94.7	86.9	90.8	10.0	84	-	113	138	158	205	262	345	-	424	1.0	1.5
110	14	60.9	.038	2	2.30	95.0	86.8	90.9	10.0	87	105	117	136	157	203	264	353	389	426	1.1	1.4
111	18	60.5	.018	2	1.94	94.5	87.3	90.9	9.9	88	105	118	138	158	202	259	337	372	410	1.1	1.5
112	1	60.4	.010	0	2.85	93.6	-	46.8	11.0	86	106	122	152	176	228	276	335	375	400	1.0	2.0
113	7	60.4	.021	1	1.65	94.8	87.2	91.0	9.5	90	108	120	140	161	208	264	342	372	414	.8	1.2
114	10	61.8	.054	0	2.22	95.0	86.5	90.8	10.3	94	107	117	135	155	202	264	346	377	419	1.0	2.3
115	13	60.6	.033	1	1.87	95.2	87.4	91.3	9.3	90	106	119	137	156	203	261	338	373	414	1.0	1.4
116	17	60.2	.028	1	2.00	94.5	86.9	90.7	10.1	88	104	118	138	159	209	270	350	384	419	1.0	1.5
117	13	59.9	.019	1	1.29	95.0	86.8	90.9	10.4	90	105	117	139	162	207	257	331	365	411	.9	2.0
118	14	60.4	.023	2	1.76	94.4	87.0	90.7	9.8	90	108	119	140	160	208	271	347	374	413	.9	1.5
119	17	61.9	.023	1	2.54	94.3	87.5	90.9	9.3	89	108	121	141	161	203	258	334	366	410	.9	1.4
120	1	-	-	-	-	97.7	89.6	93.7	9.6	85	99	115	139	164	217	269	343	384	420	1.0	1.9
121	8	60.6	.040	1	2.14	94.5	87.2	90.9	10.0	89	108	120	138	158	202	263	353	386	431	.9	1.1
122	1	60.1	-	-	1.35	94.4	86.9	90.7	-	-	-	-	-	-	-	-	-	-	-	-	-
AVERAGE		60.7	.031	1	2.05	94.8	87.2	91.0	9.9	88	106	118	139	160	207	263	342	375	416	.9	1.5
SAMPLES	168																				

TABLE 3. - MOTOR GASOLINE SURVEY, SUMMER 1972
AVERAGE DATA FOR DIFFERENT BRANDS--CONTINUED

DIST. 4 APPALACHIAN--CONTINUED
OHIO, W. VA., WESTERN N.Y., WESTERN PA., EASTERN KY., AND PART OF MD.

PREMIUM-PRICE GASOLINE

ITEM	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	5	10	20	30	50	70	90	95	EP	RES %	LOSS %
										PERCENT EVAPORATED											
123	6	54.5	0.018	-	0.16	101.2	91.1	96.2	11.1	83	102	119	147	185	232	260	317	344	375	0.7	1.3
124	8	58.1	.017	0	2.78	100.2	92.2	96.2	9.0	92	112	128	152	176	219	264	338	371	415	.9	2.2
125	13	59.9	.011	0	2.53	100.0	93.4	96.7	10.3	88	105	118	140	163	216	271	338	368	415	1.0	1.6
126	3	66.0	.020	-	2.81	100.4	94.7	97.6	10.2	84	108	123	146	172	211	241	315	354	399	.8	1.2
127	1	63.4	.017	0	2.38	98.9	90.8	94.9	11.0	88	101	116	142	170	212	252	335	373	428	1.0	3.0
128	14	62.6	.023	1	2.60	100.6	92.4	96.5	10.5	86	102	116	138	161	207	251	328	369	408	1.1	1.8
129	18	63.0	.012	1	2.48	100.1	93.4	96.8	9.6	88	106	120	144	168	209	244	313	351	392	.9	1.6
130	1	53.5	.100	0	3.18	99.2	-	49.6	9.3	88	114	134	166	195	239	281	338	370	397	1.0	2.0
131	7	62.9	.011	0	2.17	100.2	93.5	96.9	10.0	91	107	123	148	168	217	253	325	360	402	.8	1.8
132	10	62.6	.020	0	2.71	100.0	91.2	95.6	10.4	93	105	116	133	154	204	247	322	359	400	.9	2.2
133	13	57.0	.014	2	1.96	100.8	92.8	96.8	9.7	87	107	122	148	175	220	261	325	356	399	1.0	1.6
134	17	60.9	.019	0	2.44	99.9	93.5	96.7	10.5	86	100	116	139	163	207	250	314	350	399	.9	1.7
135	13	59.6	.005	0	2.11	99.7	93.3	96.5	10.3	89	103	115	135	157	212	279	332	353	383	.9	1.7
136	14	59.2	.013	1	2.48	100.1	92.3	96.2	10.0	90	108	122	144	166	214	258	317	347	386	.9	1.6
137	16	59.4	.011	2	2.78	100.4	92.5	96.5	10.0	89	107	122	148	175	222	260	320	348	397	.9	1.8
138	1	-	-	-	-	99.6	92.0	95.8	9.1	83	100	115	142	173	231	275	338	379	428	.9	1.1
139	8	62.0	.031	1	2.23	100.0	92.7	96.4	10.0	92	109	123	147	174	220	264	338	369	413	.9	2.1
140	1	58.0	-	-	2.21	99.6	92.9	96.3	-	-	-	-	-	-	-	-	-	-	-	-	-
AVERAGE		60.2	.021	1	2.35	100.1	92.6	96.4	10.1	88	106	120	145	170	217	259	327	360	402	.9	1.8
SAMPLES	164																				

TABLE 3. - MOTOR GASOLINE SURVEY, SUMMER 1972
AVERAGE DATA FOR DIFFERENT BRANDS--CONTINUED

DIST. 5 MICHIGAN

REGULAR-PRICE GASOLINE

ITEM	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES LOSS %	%
141	13	60.0	0.088	2	2.53	94.8	86.0	90.4	10.0	88	102	116	138	161	210	263	338	369	411	0.9	1.6
142	4	60.4	.058	2	1.98	94.7	86.5	90.6	9.5	88	103	118	140	161	208	263	341	370	418	1.0	1.3
143	5	58.7	.018	1	1.78	95.0	87.4	91.2	9.9	86	107	119	144	171	225	276	344	380	415	.8	1.5
144	7	59.1	.020	0	1.92	94.4	86.9	90.7	9.4	89	105	119	141	163	210	266	344	382	413	.9	1.5
145	6	59.9	.038	1	1.43	94.9	87.0	91.0	9.9	88	104	117	139	160	209	264	334	364	405	1.0	1.3
146	7	57.5	.030	1	1.76	95.5	86.7	91.1	9.8	88	106	119	142	166	220	280	358	393	431	.9	1.7
147	12	59.5	.039	1	1.19	95.3	86.8	91.1	9.1	91	105	118	137	157	209	269	341	371	408	.9	1.5
148	1	60.5	.020	3	1.41	94.5	86.5	90.5	10.1	89	-	121	141	162	208	260	331	-	416	1.0	.5
149	14	62.6	.033	1	2.34	94.0	87.4	90.7	9.6	89	104	118	139	160	204	253	331	367	403	.9	1.7
150	5	60.1	.021	4	1.28	94.6	86.7	90.7	9.9	89	107	121	141	163	208	260	330	354	399	.9	1.3
151	10	60.1	.020	2	1.74	94.3	87.0	90.7	9.7	89	102	117	137	157	205	270	346	374	412	1.0	1.8
152	26	62.3	.026	2	2.32	94.4	86.8	90.6	8.7	94	108	122	141	161	205	257	328	360	402	.9	1.4
153	4	60.2	.081	2	2.07	94.7	86.2	90.5	9.7	86	104	119	140	164	210	265	353	376	425	1.0	1.2
154	1	60.7	.025	1	2.39	94.5	87.0	90.8	9.9	84	89	110	134	157	207	264	349	374	424	1.0	5.0
155	1	63.2	.024	1	2.82	93.6	87.5	90.6	9.8	84	97	113	134	156	200	250	337	371	410	1.0	2.0
AVERAGE		60.3	.036	2	1.93	94.6	86.8	90.7	9.7	88	103	118	139	161	209	264	340	372	413	.9	1.7
SAMPLES	116																				

TABLE 3. - MOTOR GASOLINE SURVEY, SUMMER 1972
AVERAGE DATA FOR DIFFERENT BRANDS--CONTINUED

DIST. 5 MICHIGAN--CONTINUED

PREMIUM-PRICE GASOLINE

ITEM	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES LOSS %	%
156	10	61.3	0.025	2	2.75	100.2	91.8	96.0	10.2	89	102	117	139	161	206	242	299	328	371	0.8	1.8
157	5	59.7	.015	1	2.68	99.7	92.3	96.0	9.9	87	103	121	146	172	221	262	327	357	394	.7	1.3
158	5	61.7	.017	1	2.41	99.5	91.7	95.6	10.7	89	106	121	144	169	215	257	338	379	413	.8	1.5
159	5	66.0	.010	2	2.64	99.9	94.0	97.0	10.5	90	106	117	143	171	214	245	318	357	398	.8	2.1
160	6	61.3	.031	1	2.40	99.8	92.6	96.2	9.9	90	109	123	146	170	217	258	330	364	403	.9	1.3
161	6	65.2	.029	1	2.34	100.2	92.7	96.5	10.0	88	103	117	141	166	212	247	340	381	422	.9	1.8
162	10	56.5	.030	1	1.41	100.3	92.5	96.4	9.7	88	103	120	148	179	225	260	317	344	392	.8	2.0
163	1	62.9	.040	1	2.37	99.5	91.3	95.4	10.0	89	-	124	150	175	210	253	336	-	416	1.0	1.0
164	11	58.8	.017	1	2.56	99.3	92.5	95.9	10.1	89	104	120	146	171	214	254	318	347	395	.8	2.1
165	5	60.5	.007	1	1.95	99.9	93.1	96.5	10.1	89	106	121	146	171	220	264	330	356	394	.7	1.8
166	7	59.2	.008	1	2.38	100.0	92.2	96.1	9.8	88	103	118	140	161	212	256	313	341	390	.8	1.5
167	14	61.1	.011	1	2.67	99.0	93.0	96.0	10.0	90	102	119	146	175	221	255	314	346	385	.9	2.1
168	5	63.8	.059	2	2.32	99.8	92.2	96.0	10.2	85	101	121	147	172	211	247	334	369	419	.8	1.3
169	1	60.3	.018	1	2.36	97.2	89.2	93.2	10.4	84	100	118	145	166	214	259	343	379	418	1.0	2.0
170	1	58.7	.007	1	2.72	99.4	92.2	95.8	11.7	86	102	119	140	163	212	256	307	338	388	1.0	2.0
AVERAGE		61.1	.022	1	2.40	99.6	92.2	95.9	10.2	88	104	120	144	169	215	254	324	356	400	.8	1.7
SAMPLES	92																				

TABLE 3. - MOTOR GASOLINE SURVEY, SUMMER 1972
AVERAGE DATA FOR DIFFERENT BRANDS--CONTINUED

DIST. 6 NORTH ILLINOIS
NORTHERN IND., NORTHERN ILL., EASTERN IOWA, AND WIS.

REGULAR-PRICE GASOLINE

ITEM	SAMPLES	GR., ASTM D287 API	SULF., ASTM D1266 WT %	GUM, ASTM D381 MG	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES %	LOSS %
171	10	59.8	0.084	1	3.07	95.3	86.3	90.8	9.8	91	106	119	141	164	213	270	349	384	415	1.0	1.5
172	7	60.8	.058	0	2.53	94.8	86.9	90.9	9.9	90	105	117	138	159	207	265	352	388	417	1.1	1.4
173	4	60.6	.058	2	2.17	94.7	86.5	90.6	10.1	90	108	119	140	160	209	256	339	378	416	.9	2.5
174	5	59.1	.013	1	1.83	94.8	87.3	91.1	10.0	92	109	118	142	167	219	274	341	372	412	.9	1.7
175	3	60.7	.068	-	2.28	95.0	86.4	90.7	10.6	86	108	120	138	158	198	248	336	376	412	.8	.7
176	3	59.3	-	-	2.21	94.7	86.0	90.4	9.7	89	106	120	141	163	210	259	334	369	410	1.2	1.3
177	3	60.5	.054	-	2.38	94.8	86.3	90.6	10.3	86	105	119	140	162	212	268	353	390	416	.9	1.1
178	7	60.5	.021	-	1.70	94.6	86.7	90.7	9.5	94	110	123	144	167	215	262	337	372	406	1.0	1.6
179	9	58.6	.030	1	1.24	95.6	86.9	91.3	9.3	94	108	120	141	164	214	268	337	369	401	.9	1.3
180	10	60.8	.015	0	2.32	94.0	87.2	90.6	9.4	92	106	119	139	159	203	256	326	355	391	1.0	1.7
181	1	-	-	-	-	95.0	86.6	90.8	8.5	96	107	121	142	163	209	264	334	364	398	.8	2.1
182	10	60.6	.025	4	2.49	94.5	86.8	90.7	9.1	94	108	121	140	161	207	263	340	371	406	1.1	1.5
183	3	60.1	.049	-	2.43	95.0	86.3	90.7	10.1	84	104	118	138	158	206	260	354	388	426	.8	1.2
AVERAGE		60.1	.043	1	2.22	94.8	86.6	90.7	9.7	91	107	120	140	162	209	263	341	375	410	1.0	1.5
SAMPLES	75																				

TABLE 3. - MOTOR GASOLINE SURVEY, SUMMER 1972
AVERAGE DATA FOR DIFFERENT BRANDS--CONTINUED

DIST. 6 NORTH ILLINOIS--CONTINUED
NORTHERN IND., NORTHERN ILL., EASTERN IOWA, AND WIS.

PREMIUM-PRICE GASOLINE

ITEM	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES %	LOSS %
184	10	61.6	0.013	1	2.42	100.2	92.8	96.5	10.2	90	103	117	139	162	207	245	306	335	380	0.9	1.7
185	7	62.6	.012	1	2.97	99.6	92.7	96.2	10.1	90	102	117	142	168	213	250	320	356	403	.9	1.9
186	4	64.0	.043	2	2.44	100.3	92.2	96.3	10.1	82	101	118	140	166	207	252	329	370	403	.9	2.5
187	4	63.6	.012	1	2.16	99.8	92.4	96.1	10.0	87	107	120	142	165	208	249	334	374	415	1.0	1.1
188	3	64.8	.041	-	2.39	100.3	92.4	96.4	10.3	84	108	126	154	178	220	252	332	378	410	.9	1.1
189	3	62.6	.027	-	2.33	100.0	92.2	96.1	10.5	86	108	124	146	168	216	260	336	376	410	1.0	1.0
190	3	61.0	.015	-	1.98	100.1	92.7	96.4	10.2	86	106	122	144	174	220	258	326	358	400	.9	1.1
191	7	64.9	.022	-	2.27	99.6	92.4	96.0	9.5	93	109	122	142	161	209	243	319	363	411	.9	1.3
192	10	55.6	.008	1	1.45	100.7	93.0	96.9	9.2	93	112	128	154	183	226	262	320	351	389	.9	1.7
193	10	63.7	.011	0	2.56	99.2	94.0	96.6	10.1	89	101	119	149	176	217	253	324	356	394	.9	2.5
194	1	-	-	-	-	99.3	93.0	96.2	9.4	96	107	120	142	164	214	256	313	344	384	.8	2.1
195	10	57.8	.012	4	2.63	99.2	92.8	96.0	9.6	92	104	122	152	181	221	253	305	333	376	.9	2.2
196	3	63.1	.042	-	2.44	100.0	92.5	96.3	9.9	82	98	116	142	166	212	250	320	358	406	.7	1.3
AVERAGE		62.1	.022	1	2.34	99.9	92.7	96.3	9.9	88	105	121	145	170	215	253	322	358	399	.9	1.7
SAMPLES	75																				

TABLE 3. - MOTOR GASOLINE SURVEY, SUMMER 1972
AVERAGE DATA FOR DIFFERENT BRANDS--CONTINUED

DIST. 7 CENTRAL MISSISSIPPI
WESTERN KY., SOUTHERN IND., SOUTHERN ILL., AND EASTERN MO.

REGULAR-PRICE GASOLINE

ITEM	SAMPLES	GR., ASTM D287 API	SULF., ASTM D1266 WT %	GUM, ASTM D381 MG	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES %	LOSS %
197	9	60.7	0.056	-	2.93	94.8	86.6	90.7	9.3	85	100	115	138	161	204	254	342	381	419	0.7	1.6
198	3	61.0	.029	-	2.88	94.4	87.2	90.8	10.1	86	112	126	148	171	218	274	359	398	434	.8	1.2
199	12	60.7	.042	-	2.29	94.5	87.1	90.8	8.9	87	104	118	139	160	206	264	350	389	424	1.0	1.4
200	3	57.3	.027	-	1.37	95.5	85.0	90.3	8.9	88	103	118	144	171	230	289	357	381	412	.5	1.5
201	4	59.5	.049	1	1.28	94.3	85.7	90.0	9.1	91	112	124	147	163	215	266	342	380	411	1.0	1.2
202	5	57.4	.049	-	1.28	95.3	85.4	90.4	9.0	87	106	123	151	180	236	293	356	381	413	.6	1.7
203	3	59.8	.021	-	2.51	94.4	86.5	90.5	7.6	88	109	121	143	166	211	260	328	360	406	.8	1.7
204	4	60.4	.043	-	1.84	95.1	86.5	90.8	8.9	92	114	128	152	174	220	271	349	382	420	.9	1.2
205	9	60.9	.056	-	2.05	94.8	86.7	90.8	8.9	86	106	119	140	163	215	261	338	371	409	.7	1.3
206	2	59.0	.018	-	.96	94.5	86.7	90.6	8.3	90	118	131	155	176	219	262	333	368	408	.7	1.3
207	9	59.9	.027	-	1.94	94.5	87.6	91.1	8.8	83	101	117	139	159	206	264	348	386	418	.9	1.6
208	6	61.9	.041	-	1.55	94.8	85.9	90.4	9.5	92	109	120	143	166	217	262	338	376	411	1.1	1.9
209	2	60.5	.046	-	1.35	94.5	86.2	90.4	9.7	88	107	122	145	166	218	274	347	378	410	.7	.8
210	12	59.6	.053	-	1.37	95.5	86.8	91.2	8.0	87	106	119	139	160	212	272	342	374	406	.9	1.3
211	4	60.4	.038	1	1.95	94.7	86.5	90.6	9.4	85	108	113	138	164	215	266	333	372	401	1.0	2.1
212	4	62.1	.047	2	2.88	94.7	87.7	91.2	9.5	88	106	119	142	161	202	262	358	390	435	1.0	1.0
213	3	61.6	.027	-	2.42	94.3	87.9	91.1	9.2	90	110	122	142	164	204	260	340	362	414	.7	.8
214	9	60.4	.028	-	2.17	94.7	87.1	90.9	8.8	89	109	121	143	165	212	271	349	376	412	.9	1.6
215	15	60.9	.028	-	2.30	94.3	86.9	90.6	8.7	88	104	119	141	163	213	271	339	365	399	.9	1.5
216	3	58.6	.030	-	1.73	94.7	87.3	91.0	8.8	95	116	132	156	174	220	278	352	386	419	.8	.7
AVERAGE		60.1	.038	1	1.95	94.7	86.7	90.7	9.0	88	108	121	144	166	215	269	345	378	414	.8	1.4
SAMPLES	121																				

TABLE 3. - MOTOR GASOLINE SURVEY, SUMMER 1972
AVERAGE DATA FOR DIFFERENT BRANDS--CONTINUED

DIST. 7 CENTRAL MISSISSIPPI--CONTINUED
WESTERN KY., SOUTHERN IND., SOUTHERN ILL., AND EASTERN MO.

PREMIUM-PRICE GASOLINE

ITEM	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES %	LOSS %
217	9	60.8	0.041	-	2.51	100.1	91.8	96.0	9.4	86	103	117	140	163	212	252	317	350	395	0.7	1.7
218	3	56.3	.023	-	3.31	100.5	92.1	96.3	9.6	88	114	132	159	188	240	290	358	390	428	.8	1.2
219	12	60.3	.026	-	2.36	99.7	92.3	96.0	9.3	85	103	122	145	171	216	260	335	371	411	.9	1.8
220	3	63.3	.052	-	2.55	99.8	92.4	96.1	10.1	84	104	120	146	175	213	245	329	367	408	.4	1.1
221	3	60.2	.035	-	2.76	99.9	92.8	96.4	9.1	84	109	128	156	179	224	266	334	370	400	.9	1.1
222	5	63.5	.044	-	2.46	99.9	92.6	96.3	9.9	86	107	123	150	177	216	258	336	372	408	.7	1.3
223	2	62.9	.029	-	2.81	99.5	93.7	96.6	-	-	-	-	-	-	-	-	-	-	-	-	-
224	3	63.6	.071	-	2.48	99.5	92.1	95.8	8.7	90	110	123	146	168	210	244	310	343	406	.3	1.2
225	5	63.7	.027	-	2.28	100.6	92.2	96.4	9.5	88	105	118	140	161	209	246	313	349	400	.7	1.3
226	9	63.2	.032	-	2.40	100.2	92.6	96.4	9.1	87	107	122	146	169	211	246	309	339	387	.6	1.2
227	2	64.8	.032	-	2.83	100.3	93.5	96.9	9.0	86	110	126	150	172	210	241	327	362	396	1.0	2.0
228	9	59.0	.019	-	1.77	100.0	92.4	96.2	8.9	89	107	124	150	174	216	256	324	358	398	.9	2.0
229	6	66.1	.033	-	2.50	99.8	91.8	95.8	9.6	94	110	119	138	160	208	243	320	366	413	1.0	1.8
230	2	61.4	.028	-	2.05	99.7	92.1	95.9	9.0	88	109	126	152	178	222	272	350	382	416	.9	1.1
231	12	56.0	.017	-	1.60	100.8	92.9	96.9	8.7	89	107	127	157	187	228	260	315	343	385	.9	1.7
232	3	63.3	.021	-	2.29	99.6	92.3	96.0	8.9	88	107	123	150	175	210	243	327	360	406	.4	1.1
233	3	56.1	.022	-	2.90	100.5	91.9	96.2	8.7	90	114	131	158	186	234	282	354	386	420	1.0	1.0
234	3	58.3	.030	-	2.52	100.7	91.6	96.2	8.1	90	117	130	150	170	210	258	336	366	406	1.0	1.0
235	9	60.2	.038	-	2.67	100.1	92.4	96.3	8.8	87	110	126	153	177	220	255	329	364	403	.8	1.1
236	15	57.6	.016	-	2.84	99.9	92.2	96.1	8.9	84	103	124	157	186	227	260	313	342	379	.8	1.8
237	3	59.8	.031	-	1.72	99.6	93.0	96.3	9.0	86	112	128	154	178	220	270	340	380	414	.8	1.2
AVERAGE		61.0	.032	-	2.46	100.0	92.4	96.2	9.1	87	108	124	150	175	218	257	329	363	404	.8	1.4
SAMPLES	121																				

TABLE 3. - MOTOR GASOLINE SURVEY, SUMMER 1972
AVERAGE DATA FOR DIFFERENT BRANDS--CONTINUED

DIST. 8 LOWER MISSISSIPPI
MISS., LA., EASTERN AND SOUTHERN ARK., AND WESTERN TENN.

REGULAR-PRICE GASOLINE

ITEM	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	5	10	20	30	50	70	90	95	EP	RES %	LOSS %
										PERCENT EVAPORATED											
238	12	61.4	0.031	-	2.67	94.5	86.8	90.7	8.9	92	110	123	144	163	204	262	337	365	400	1.0	1.7
239	5	61.1	.043	-	2.31	94.2	87.4	90.8	8.9	94	107	120	137	149	183	243	341	371	414	.7	.8
240	3	63.0	.042	-	2.69	93.1	86.6	89.9	10.0	88	111	126	146	161	192	239	335	388	418	1.1	1.4
241	4	62.8	.024	0	2.82	93.7	87.9	90.8	9.6	89	110	121	142	161	204	251	329	363	402	.8	1.3
242	3	60.5	-	-	2.49	94.2	86.6	90.4	9.3	86	106	116	133	153	203	263	345	383	428	.8	1.2
243	7	60.9	.041	0	2.59	94.1	87.5	90.8	9.2	90	114	125	146	166	209	265	342	361	408	1.0	1.8
244	12	59.0	.057	-	1.96	95.5	86.4	91.0	9.4	92	108	122	141	162	215	284	369	397	424	1.0	1.5
245	13	60.1	.015	-	1.68	94.1	86.8	90.5	9.0	91	109	121	140	160	208	263	336	368	416	.9	1.6
246	10	61.9	.048	1	2.33	93.9	87.0	90.5	9.1	91	110	120	137	158	201	249	323	349	409	1.0	1.0
247	3	60.7	-	-	-	94.2	85.7	90.0	9.9	99	111	122	141	162	211	272	348	381	421	1.2	2.2
248	13	60.6	.038	-	2.25	94.6	86.7	90.7	9.3	93	111	123	143	164	206	263	352	384	417	1.1	1.5
249	12	60.7	.056	-	2.68	94.5	86.7	90.6	9.1	96	110	124	144	164	212	274	357	386	423	1.1	1.4
250	7	61.8	.034	1	2.69	94.4	87.6	91.0	8.7	90	109	121	140	159	200	250	330	366	413	.9	1.5
251	1	59.9	-	-	2.45	94.0	87.5	90.8	9.0	86	-	113	132	-	195	-	341	-	421	1.0	2.0
252	6	60.2	.051	-	2.71	94.6	85.9	90.3	8.9	90	109	122	142	162	209	268	348	377	405	1.0	1.1
253	12	61.8	.037	-	2.81	94.5	86.9	90.7	9.2	94	111	124	145	166	207	254	322	356	397	1.0	1.5
254	3	59.5	.065	-	1.86	95.2	86.1	90.7	9.0	96	102	117	137	156	207	275	371	400	422	.8	1.2
255	3	63.8	.015	-	2.85	93.6	88.3	91.0	9.3	94	105	118	137	154	192	233	307	342	393	.4	1.6
AVERAGE		61.1	.040	1	2.46	94.3	86.9	90.6	9.2	92	109	121	140	160	203	259	341	373	413	.9	1.5
SAMPLES	129																				

TABLE 3. - MOTOR GASOLINE SURVEY, SUMMER 1972
AVERAGE DATA FOR DIFFERENT BRANDS--CONTINUED

DIST. 8 LOWER MISSISSIPPI--CONTINUED
MISS., LA., EASTERN AND SOUTHERN ARK., AND WESTERN TENN.

PREMIUM-PRICE GASOLINE

ITEM	SAMPLES	GR., ASTM D287 API	SULF., ASTM D1266 WT %	GUM, ASTM D381 MG	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES %	LOSS %
256	12	52.0	0.013	-	* .00	101.5	90.7	96.1	9.4	89	109	122	150	183	227	253	302	332	377	0.9	1.4
257	5	60.6	.035	-	2.81	99.6	92.4	96.0	8.0	87	105	118	142	166	210	242	335	381	425	.7	1.3
258	3	64.5	.045	-	3.12	99.9	93.3	96.6	8.7	89	105	117	138	160	207	255	320	364	416	.5	1.5
259	4	60.9	.026	0	3.14	100.0	93.2	96.6	9.9	87	108	122	144	166	213	264	334	356	386	.9	1.2
260	3	61.1	-	-	3.00	100.1	92.9	96.5	9.2	90	111	125	147	173	215	240	316	349	406	.9	.6
261	7	63.0	.033	0	3.24	100.0	92.5	96.3	9.2	90	112	122	143	164	207	253	337	371	415	.7	1.7
262	6	60.1	.041	-	2.46	100.1	92.5	96.3	9.2	89	107	120	141	164	212	255	317	348	387	1.2	1.1
263	12	61.7	.029	-	2.19	100.5	92.5	96.5	9.3	93	110	124	146	169	213	247	307	340	389	1.0	1.6
264	13	60.5	.019	-	2.28	99.9	92.3	96.1	9.1	95	112	125	147	167	213	249	308	338	400	1.0	1.5
265	10	61.3	.061	0	3.06	100.1	92.1	96.1	9.0	89	109	120	140	162	208	252	320	349	407	.9	1.2
266	3	61.1	-	-	-	100.1	92.2	96.2	9.4	98	110	124	154	182	225	261	339	375	416	.8	2.4
267	13	57.6	.017	-	2.18	100.3	92.3	96.3	9.0	91	107	121	146	173	225	265	321	350	395	1.0	1.7
268	12	59.6	.043	-	3.06	100.1	92.8	96.5	9.0	91	112	128	151	175	220	254	316	348	397	.9	1.2
269	9	61.3	.032	-	3.06	99.8	92.4	96.1	8.6	91	108	122	141	161	206	255	327	360	404	.9	1.3
270	1	57.7	-	-	2.31	100.0	91.8	95.9	9.4	91	-	116	133	-	201	-	336	-	410	1.0	2.0
271	6	60.8	.068	-	3.23	100.1	92.5	96.3	9.0	91	112	130	159	186	228	265	342	374	414	1.1	1.2
272	13	59.6	.013	-	2.67	99.9	92.3	96.1	9.0	91	112	127	151	178	220	255	307	332	378	.9	1.4
273	3	59.0	.022	-	2.32	100.6	92.0	96.3	9.2	94	120	132	155	180	228	266	326	349	390	1.0	1.0
274	2	61.5	-	-	3.21	99.2	92.8	96.0	9.3	90	110	123	143	164	208	258	332	355	406	.9	1.6
AVERAGE		60.2	.033	0	2.78	100.1	92.4	96.3	9.1	91	110	123	146	171	215	255	323	354	401	.9	1.4
SAMPLES	137																				

* Not included in average for lead.

TABLE 3. - MOTOR GASOLINE SURVEY, SUMMER 1972
AVERAGE DATA FOR DIFFERENT BRANDS--CONTINUED

DIST. 9 NORTH PLAINS
MINN., N. DAK., AND S. DAK.

REGULAR-PRICE GASOLINE

ITEM	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES %	LOSS %
275	11	63.1	0.053	-	2.04	92.7	84.5	88.6	9.1	99	113	127	148	170	214	262	341	377	405	1.0	1.3
276	3	63.0	.061	-	2.30	92.8	85.7	89.3	9.8	88	106	120	141	162	204	262	348	386	410	.8	1.2
277	3	62.4	.071	-	2.28	92.6	85.6	89.1	10.0	89	109	122	143	162	206	262	342	376	420	.8	.7
278	4	61.9	.073	-	2.12	92.6	85.4	89.0	9.0	97	116	131	155	176	226	274	362	399	417	1.0	1.2
279	3	62.8	.062	-	2.89	92.8	86.4	89.6	8.8	92	112	124	145	164	202	251	332	370	422	.8	1.2
280	3	62.0	.042	-	1.72	92.2	85.1	88.7	8.8	92	108	122	142	160	200	248	328	362	412	.7	1.3
281	3	60.1	.075	-	1.73	93.1	85.4	89.3	9.7	91	109	125	148	171	218	288	354	384	420	.9	1.1
282	3	62.3	.054	-	1.59	92.4	85.0	88.7	9.0	90	110	124	146	166	210	260	340	370	410	.9	1.1
283	10	60.2	.082	1	2.09	92.5	84.9	88.7	9.4	94	110	123	143	163	208	260	343	382	416	.9	1.3
284	1	62.1	-	-	.88	93.2	86.2	89.7	9.0	90	114	129	154	182	224	258	328	364	410	.9	1.1
285	2	62.8	.031	-	2.74	92.8	86.1	89.5	-	-	-	-	-	-	-	-	-	-	-	-	-
286	13	59.7	.074	-	1.58	92.5	84.6	88.6	8.9	97	113	126	145	165	210	264	350	388	414	1.0	1.2
287	3	60.3	.060	-	2.17	93.0	85.7	89.4	9.8	88	108	122	144	166	210	268	358	388	414	.9	1.1
AVERAGE		61.7	.062	1	2.01	92.7	85.4	89.1	9.3	92	111	125	146	167	211	263	344	379	414	.9	1.2
SAMPLES	62																				

TABLE 3. - MOTOR GASOLINE SURVEY, SUMMER 1972
AVERAGE DATA FOR DIFFERENT BRANDS--CONTINUED

DIST. 9 NORTH PLAINS--CONTINUED
MINN., N. DAK., AND S. DAK.

PREMIUM-PRICE GASOLINE

ITEM	SAMPLES	GR., ASTM D287 API	SULF., ASTM D1266 WT %	GUM, ASTM D381 MG	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES %	LOSS %
288	11	67.6	0.034	-	2.26	99.2	90.7	95.0	9.7	97	110	124	146	169	214	256	329	360	391	1.1	1.4
289	3	66.1	.031	-	2.14	99.6	92.4	96.0	9.9	88	110	128	154	178	214	238	322	366	408	.9	1.1
290	3	65.5	.046	-	2.76	100.1	93.1	96.6	9.9	86	107	129	163	188	218	248	328	370	404	.8	1.2
291	3	63.6	.041	-	2.24	99.6	93.1	96.4	9.1	90	115	131	154	180	223	256	336	372	410	.9	1.1
292	4	63.3	.040	-	2.71	98.8	92.5	95.7	9.6	95	109	127	154	179	213	248	339	362	396	.9	1.6
293	3	61.9	.036	-	3.22	99.8	95.1	97.5	9.1	88	114	133	164	190	228	258	318	352	410	.8	1.2
294	3	62.5	.037	-	2.38	99.5	93.2	96.4	8.8	88	106	126	155	178	220	258	332	370	396	.9	1.1
295	3	65.6	.049	-	2.44	99.8	93.5	96.7	9.7	89	117	138	167	190	220	250	336	376	410	.9	1.1
296	3	61.9	.027	-	2.49	99.6	92.9	96.3	9.0	92	117	134	160	186	225	262	332	366	408	.8	1.2
297	10	66.5	.065	1	2.12	99.1	91.3	95.2	9.6	98	112	127	152	175	213	249	329	373	400	1.0	1.3
298	3	63.3	.048	-	2.32	99.3	93.1	96.2	8.8	88	111	128	155	179	220	256	330	366	408	.9	1.1
299	3	62.1	.052	-	3.24	99.6	94.3	97.0	9.0	90	114	132	160	184	220	256	328	368	410	.9	2.1
300	12	67.3	.044	-	2.76	98.6	91.0	94.8	9.2	96	112	127	151	174	219	261	324	358	392	1.0	1.3
301	3	65.3	.060	-	2.27	99.5	92.4	96.0	9.5	86	112	129	155	180	215	246	322	362	410	.9	1.1
AVERAGE		64.5	.044	1	2.53	99.4	92.8	96.1	9.4	91	112	130	156	181	219	253	329	366	404	.9	1.3
SAMPLES	67																				

TABLE 3. - MOTOR GASOLINE SURVEY, SUMMER 1972
AVERAGE DATA FOR DIFFERENT BRANDS--CONTINUED

DIST. 10 CENTRAL PLAINS
NEBR., CENTRAL AND WESTERN IOWA, NW MO., AND NORTHERN KANS.

REGULAR-PRICE GASOLINE

ITEM	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES %	LOSS %
302	20	60.4	0.063	1	2.40	93.9	85.1	89.5	9.4	90	107	122	143	166	209	258	333	364	392	0.9	1.5
303	9	62.2	.044	-	1.95	92.7	85.5	89.1	8.9	91	109	119	134	149	186	240	328	364	412	.8	1.2
304	3	60.5	.023	-	2.80	94.6	87.6	91.1	9.6	82	100	110	132	154	200	260	344	380	416	.8	1.2
305	3	62.6	-	-	1.32	92.5	84.5	88.5	8.5	94	112	122	140	158	201	255	339	377	424	.9	1.6
306	3	-	-	-	-	92.8	84.7	88.8	8.9	100	112	123	141	158	205	262	353	399	411	1.2	1.1
307	5	62.6	.033	1	1.76	92.2	85.6	88.9	9.1	92	112	124	146	170	218	264	339	374	406	.9	1.0
308	3	59.4	.035	-	1.69	94.8	86.8	90.8	9.9	86	106	122	146	172	230	295	368	398	422	1.0	1.0
309	8	61.2	.062	1	1.82	93.6	85.8	89.7	9.4	90	106	117	134	151	196	256	341	375	417	.8	1.2
310	1	59.5	.193	1	2.70	93.0	85.0	89.0	7.3	100	120	130	150	172	216	270	358	392	426	1.0	1.5
311	21	62.5	.033	0	1.98	92.6	85.9	89.3	8.5	96	111	123	139	155	197	249	327	362	405	.9	1.2
312	6	60.6	.061	-	1.86	93.9	86.4	90.2	9.0	91	109	121	141	163	210	268	342	370	411	.9	1.1
313	5	62.6	.048	-	1.33	92.2	84.8	88.5	8.7	95	109	121	138	155	195	249	332	369	417	.7	1.6
314	16	60.9	.032	0	2.06	93.0	85.9	89.5	9.1	92	109	122	144	166	217	274	357	394	422	1.1	1.2
315	3	60.5	.024	-	2.49	94.5	87.9	91.2	9.0	90	110	126	150	172	218	264	358	396	430	1.0	1.0
316	12	60.8	.033	-	1.78	93.1	86.0	89.6	8.9	94	109	121	140	158	200	255	332	368	414	.8	1.4
317	15	62.0	.031	1	2.06	92.7	85.3	89.0	9.0	93	108	120	136	154	198	253	335	375	413	1.0	1.1
318	3	60.8	.025	-	1.87	94.5	86.7	90.6	9.9	88	106	124	151	171	214	262	340	380	416	.9	1.1
319	3	60.1	.037	-	2.55	95.0	87.0	91.0	9.8	84	106	119	140	158	202	256	326	354	396	.6	1.4
320	3	59.5	.037	-	1.95	95.0	86.7	90.9	9.7	86	106	122	146	170	218	288	358	390	424	1.0	1.0
321	3	60.1	.046	-	2.25	94.7	87.2	91.0	9.4	86	108	124	148	168	218	272	356	390	414	.9	1.1
AVERAGE		61.0	.048	1	2.03	93.6	86.0	89.8	9.1	91	109	122	142	162	207	263	343	379	414	.9	1.2
SAMPLES	145																				

TABLE 3. - MOTOR GASOLINE SURVEY, SUMMER 1972
AVERAGE DATA FOR DIFFERENT BRANDS--CONTINUED

DIST. 10 CENTRAL PLAINS--CONTINUED
NEBR., CENTRAL AND WESTERN IOWA, NW MO., AND NORTHERN KANS.

PREMIUM-PRICE GASOLINE

ITEM	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES %	LOSS %
322	20	58.2	0.047	1	1.87	100.1	91.0	95.6	9.6	91	108	123	150	177	222	254	311	342	380	0.8	1.6
323	9	63.5	.049	-	2.38	99.0	92.3	95.7	8.8	91	107	120	140	159	204	246	322	359	412	.7	1.5
324	3	62.6	.020	-	2.62	100.3	92.6	96.5	10.2	86	107	123	148	171	214	254	324	366	414	.8	1.2
325	3	63.2	-	-	2.34	99.2	91.7	95.5	8.4	94	112	125	146	167	210	246	328	365	418	.8	.7
326	12	63.6	.047	-	2.24	98.9	91.8	95.4	8.9	95	108	121	141	163	206	243	327	369	411	1.0	1.2
327	5	65.2	.033	1	2.22	99.0	92.3	95.7	8.7	91	112	126	153	176	212	246	328	378	412	.9	1.1
328	3	62.6	.025	-	2.42	100.9	93.1	97.0	9.8	86	104	118	140	168	218	260	324	354	394	.6	1.4
329	8	64.2	.027	1	2.04	99.6	92.6	96.1	9.2	92	111	127	153	176	214	247	319	358	408	.8	1.3
330	1	59.1	.091	1	2.70	97.2	88.4	92.8	7.6	94	124	140	168	190	226	266	350	402	416	.5	3.0
331	21	65.5	.033	0	2.00	99.0	92.6	95.8	8.7	94	110	123	142	163	205	240	322	368	411	.9	1.2
332	6	59.6	.015	-	2.40	99.8	93.2	96.5	8.9	87	101	118	142	169	219	253	316	359	403	.8	1.2
333	5	65.0	.059	-	2.05	98.9	91.7	95.3	9.7	90	107	119	139	160	203	239	313	356	420	.8	1.5
334	15	60.7	.016	2	2.57	99.0	93.1	96.1	9.3	92	109	128	158	186	223	259	323	357	392	.9	1.5
335	3	58.2	.031	-	2.23	100.5	92.8	96.7	9.0	88	105	121	145	167	210	258	330	370	398	.7	.8
336	11	61.7	.033	-	2.31	99.3	92.6	96.0	8.5	90	109	122	143	168	211	249	321	359	408	.6	1.2
337	15	61.4	.027	2	2.61	99.1	92.2	95.7	9.0	90	108	123	147	170	216	254	329	367	413	.9	1.1
338	3	61.8	.061	-	3.09	100.5	93.1	96.8	10.0	84	102	118	144	164	208	254	322	356	400	.8	1.2
339	3	59.4	.023	-	2.21	101.6	93.3	97.5	9.2	90	106	122	146	170	221	262	320	346	374	.8	1.2
340	3	61.1	.030	-	2.49	100.6	93.2	96.9	9.4	88	106	121	144	167	214	260	328	364	414	.9	1.1
341	3	62.4	.041	-	3.51	100.1	92.5	96.3	9.7	86	105	118	141	164	215	264	341	372	420	.9	1.1
AVERAGE		62.0	.037	1	2.42	99.6	92.3	96.0	9.1	90	108	123	147	170	214	253	325	363	406	.8	1.3
SAMPLES	152																				

TABLE 3. - MOTOR GASOLINE SURVEY, SUMMER 1972
AVERAGE DATA FOR DIFFERENT BRANDS--CONTINUED

DIST. 11 SOUTH PLAINS
SOUTHERN KANS., SW MO., WESTERN ARK., OKLA., AND NORTHERN TEX.

REGULAR-PRICE GASOLINE

ITEM	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES %	LOSS %
342	6	62.8	0.086	-	3.17	92.9	86.1	89.5	8.8	92	106	119	139	159	203	259	357	395	441	1.1	1.2
343	5	60.3	.031	0	1.85	93.1	86.0	89.6	9.2	87	106	119	144	166	206	255	335	377	412	1.1	1.9
344	8	60.8	.035	1	1.64	92.8	85.9	89.4	9.4	90	104	119	140	161	208	262	335	366	415	1.0	1.6
345	10	62.2	.036	1	2.03	93.8	86.5	90.2	8.3	94	113	123	139	154	191	239	338	370	412	.9	1.3
346	3	63.4	.062	-	2.66	93.3	86.0	89.7	9.4	87	102	114	133	150	192	243	326	367	410	1.0	1.0
347	3	60.2	.043	-	2.02	93.2	86.1	89.7	8.5	93	110	121	140	159	201	258	337	371	410	1.0	1.0
348	3	-	-	-	-	94.1	86.8	90.5	9.6	90	102	120	143	166	215	273	351	385	422	.9	2.4
349	7	63.6	.040	1	2.05	92.0	85.6	88.8	8.7	92	110	123	144	165	205	244	315	355	389	1.0	1.9
350	3	61.2	.019	-	2.23	93.0	86.2	89.6	7.7	92	103	117	134	152	200	264	342	375	414	1.1	1.9
351	7	62.5	.031	1	2.16	92.5	85.8	89.2	9.4	90	107	117	134	152	193	251	330	373	418	.9	1.6
352	3	61.4	.041	-	2.43	94.6	87.1	90.9	8.9	96	109	121	140	159	204	264	345	376	406	1.0	1.0
353	6	60.2	.053	-	1.89	93.9	86.2	90.1	8.8	90	108	118	137	157	207	266	337	368	412	1.0	1.0
354	17	62.1	.034	0	1.99	93.4	86.3	89.9	8.8	93	108	122	142	162	208	260	336	372	419	.9	1.8
355	4	64.9	.021	1	2.87	93.6	87.9	90.8	8.5	99	115	130	146	162	202	245	324	357	418	.8	2.0
356	3	59.3	.027	-	1.72	94.9	86.8	90.9	7.0	92	108	119	137	156	209	279	355	377	413	.5	1.5
357	7	62.5	.038	0	1.67	92.7	85.5	89.1	8.9	90	107	115	130	144	189	248	336	372	416	1.2	1.3
358	11	60.2	.049	1	2.33	93.2	86.2	89.7	8.6	92	108	122	141	161	207	265	345	379	418	.9	1.5
359	7	60.9	.029	-	1.98	93.0	86.0	89.5	9.3	86	100	114	133	152	198	262	342	377	412	1.0	1.9
360	14	60.3	.049	3	2.99	94.2	86.4	90.3	8.8	89	108	123	146	167	210	261	331	361	396	.8	1.7
361	3	59.9	.035	-	2.83	92.6	86.3	89.5	7.7	90	110	135	166	190	233	277	347	380	422	1.0	1.5
AVERAGE		61.5	.040	1	2.24	93.3	86.3	89.8	8.7	91	107	121	140	160	204	259	338	373	414	1.0	1.6
SAMPLES	130																				

TABLE 3. - MOTOR GASOLINE SURVEY, SUMMER 1972
AVERAGE DATA FOR DIFFERENT BRANDS--CONTINUED

DIST. 11 SOUTH PLAINS--CONTINUED
SOUTHERN KANS., SW MO., WESTERN ARK., OKLA., AND NORTHERN TEX.

PREMIUM-PRICE GASOLINE

ITEM	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	5	10	20	30	50	70	90	95	EP	RES %	LOSS %
										PERCENT EVAPORATED											
362	6	62.1	0.050	-	2.71	99.4	92.8	96.1	8.1	91	109	125	152	181	227	266	337	370	422	1.0	1.3
363	5	61.3	.028	0	2.32	98.3	92.8	95.6	9.2	87	108	120	147	179	216	249	313	355	393	1.0	2.2
364	7	64.0	.039	1	2.39	99.3	92.8	96.1	9.5	88	103	117	141	165	210	244	317	357	412	1.1	1.3
365	8	62.7	.028	4	2.71	99.2	92.6	95.9	9.4	91	104	117	133	150	199	255	332	367	402	1.0	1.1
366	3	61.4	.141	-	2.93	99.6	92.5	96.1	8.2	88	103	120	147	173	220	260	332	363	420	1.0	1.0
367	3	58.2	.015	-	3.05	99.8	92.5	96.2	8.0	90	111	125	151	180	231	271	331	365	414	1.0	1.0
368	8	59.6	.028	-	2.75	99.3	92.6	96.0	9.0	84	103	120	146	174	222	258	328	367	410	.9	1.5
369	7	66.7	.038	1	2.13	99.1	92.9	96.0	9.2	88	112	124	150	175	209	240	317	362	403	1.1	2.2
370	3	60.8	.028	-	2.50	99.3	92.6	96.0	9.0	92	109	125	155	187	229	269	340	377	426	1.0	1.5
371	6	62.5	.029	0	2.58	99.1	93.0	96.1	9.7	90	109	126	155	185	225	260	343	382	428	1.1	1.7
372	3	63.2	.019	-	2.46	100.3	93.1	96.7	8.2	93	108	117	133	153	206	263	325	357	384	1.0	1.0
373	6	61.9	.027	-	2.54	100.0	93.0	96.5	8.5	91	108	125	152	177	216	255	323	356	399	.9	1.4
374	17	65.8	.027	0	2.31	99.1	93.1	96.1	8.9	94	108	124	150	175	216	249	321	362	408	1.0	2.2
375	3	65.1	.025	1	3.17	99.1	92.9	96.0	8.9	86	107	127	149	173	218	256	344	375	421	1.0	1.5
376	3	54.1	.014	-	2.75	100.1	92.4	96.3	8.5	90	105	121	145	173	229	263	325	352	390	1.0	1.0
377	7	63.5	.031	0	2.33	99.1	93.4	96.3	9.7	92	110	126	155	183	225	257	334	366	419	1.2	2.2
378	11	59.9	.023	1	2.61	99.2	92.9	96.1	8.3	91	109	126	153	176	223	257	324	358	404	.9	1.6
379	7	61.7	.026	-	2.91	99.9	93.7	96.8	9.0	89	107	126	155	182	220	256	335	367	406	.8	1.8
380	14	61.3	.023	1	2.99	99.7	92.9	96.3	8.8	90	109	127	155	180	218	250	308	340	378	.8	1.7
381	2	66.5	-	-	3.81	100.1	95.3	97.7	10.0	90	104	120	144	169	215	251	340	383	424	1.0	1.0
AVERAGE		62.1	.034	1	2.70	99.5	93.0	96.3	8.9	90	107	123	148	175	219	256	328	364	408	1.0	1.5
SAMPLES	129																				

TABLE 3. - MOTOR GASOLINE SURVEY, SUMMER 1972
AVERAGE DATA FOR DIFFERENT BRANDS--CONTINUED

DIST. 12 SOUTH TEXAS

REGULAR-PRICE GASOLINE

ITEM	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES LOSS %	%
382	1	64.4	-	-	2.08	95.0	85.7	90.4	10.1	86	-	104	121	-	177	-	323	-	394	1.0	2.0
383	7	61.7	0.037	1	2.51	94.4	87.8	91.1	8.7	98	111	123	139	156	192	249	341	373	412	1.2	1.4
384	3	57.5	.024	-	2.17	94.8	87.0	90.9	8.0	96	113	126	147	166	215	267	332	357	396	1.0	1.5
385	3	-	-	-	-	94.5	87.2	90.9	9.5	96	112	128	148	167	206	251	325	356	394	1.3	1.8
386	3	61.2	.023	-	2.18	94.8	87.2	91.0	9.3	96	106	120	140	158	198	245	320	351	386	1.1	1.4
387	3	61.4	.089	-	2.73	94.3	86.3	90.3	8.3	94	116	126	143	161	203	257	340	382	460	1.1	.9
388	3	62.5	.019	-	3.84	92.5	86.6	89.6	9.0	94	115	128	146	164	203	249	302	326	361	.5	1.0
389	13	61.0	.028	0	2.11	94.2	86.5	90.4	8.2	97	111	124	142	161	203	263	335	371	404	1.0	1.3
390	15	59.8	.057	0	2.27	94.0	86.3	90.2	8.8	95	109	121	138	158	206	263	344	373	414	.9	1.5
391	6	62.2	.018	-	1.35	94.0	87.0	90.5	8.5	95	113	126	141	156	196	259	338	368	408	1.2	1.2
392	5	62.2	.027	-	2.91	93.4	87.3	90.4	8.9	94	110	126	145	163	197	236	311	370	418	1.1	.4
393	8	60.4	.034	1	2.02	93.7	86.1	89.9	7.7	101	109	126	141	151	200	277	332	383	404	1.0	1.3
394	3	62.1	.078	-	3.01	94.4	86.4	90.4	9.0	96	112	122	137	152	197	256	337	373	414	1.0	1.5
395	13	58.7	.049	-	2.75	94.2	86.3	90.3	8.2	99	116	128	145	161	213	269	354	376	426	1.0	1.1
396	14	60.9	.037	1	2.84	93.7	86.2	90.0	7.8	100	115	130	149	167	207	255	326	354	406	1.0	1.5
AVERAGE		61.1	.040	1	2.48	94.1	86.7	90.4	8.7	96	112	124	141	160	201	257	331	365	406	1.0	1.3
SAMPLES	100																				

TABLE 3. - MOTOR GASOLINE SURVEY, SUMMER 1972
AVERAGE DATA FOR DIFFERENT BRANDS--CONTINUED

DIST. 12 SOUTH TEXAS--CONTINUED

PREMIUM-PRICE GASOLINE

ITEM	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES %	LOSS %
397	1	52.1	-	-	0.04	101.3	91.2	96.3	10.1	72	-	103	141	-	227	-	307	-	377	1.0	2.0
398	7	59.5	0.022	1	2.83	99.2	92.4	95.8	9.0	95	108	120	137	156	210	261	332	358	404	1.0	1.2
399	3	57.0	.032	-	3.09	99.6	91.8	95.7	8.5	94	112	127	153	184	237	290	344	362	392	1.3	1.2
400	9	58.4	.019	-	3.07	99.7	92.1	95.9	9.2	96	112	128	152	176	221	266	335	361	404	.9	1.8
401	3	60.4	.018	-	3.20	99.8	92.1	96.0	9.5	90	110	128	155	178	215	258	334	363	408	.9	.6
402	3	59.7	.052	-	3.19	100.0	91.6	95.8	9.0	92	113	127	149	171	215	257	333	360	408	1.0	1.5
403	3	62.4	.027	-	4.20	99.5	90.0	94.8	9.0	92	97	106	122	138	177	242	323	347	386	1.2	.3
404	16	62.2	.020	0	2.52	99.2	92.1	95.7	7.8	98	113	126	144	158	207	247	312	340	390	1.0	1.2
405	15	61.9	.023	0	2.60	100.0	92.0	96.0	8.8	94	112	123	145	167	212	244	318	335	396	1.0	1.6
406	6	64.8	.018	-	2.15	99.7	93.2	96.5	9.1	92	111	124	140	159	207	243	307	343	395	1.1	1.3
407	6	61.6	.017	-	2.92	99.7	92.7	96.2	8.9	92	110	122	144	166	211	252	329	364	411	.8	1.7
408	6	58.6	.002	1	2.43	100.2	92.6	96.4	7.4	101	105	129	149	161	216	257	310	350	391	1.0	1.5
409	3	60.0	.037	-	3.16	99.9	91.7	95.8	8.8	88	110	126	151	173	212	245	331	370	404	1.4	.6
410	13	58.6	.020	-	3.02	99.9	92.4	96.2	8.9	96	110	123	144	164	222	261	334	346	408	.9	1.4
411	14	59.7	.017	1	2.89	99.7	92.4	96.1	8.0	100	116	133	158	183	221	259	311	332	380	.9	1.5
AVERAGE		59.8	.023	1	2.75	99.8	92.0	95.9	8.8	93	110	123	146	167	214	256	324	352	397	1.0	1.3
SAMPLES	108																				

TABLE 3. - MOTOR GASOLINE SURVEY, SUMMER 1972
AVERAGE DATA FOR DIFFERENT BRANDS--CONTINUED

DIST. 13 SOUTH MT. STATES
SW KANS., OKLA. AND TEX. PANHANDLES, W. TEX., N. MEX., COLO., UTAH, ARIZ., NEV., AND E. CALIF.

REGULAR-PRICE GASOLINE

ITEM	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES LOSS %	%
412	5	60.6	-	-	2.64	91.2	84.4	87.8	8.3	95	111	125	146	167	208	259	326	372	404	0.7	1.6
413	10	59.5	0.044	1	1.92	91.1	84.6	87.9	8.2	96	115	133	157	180	224	272	345	381	413	.9	1.3
414	26	58.6	.060	1	1.64	93.0	85.5	89.3	8.2	98	115	129	148	168	211	264	335	370	415	.9	1.4
415	3	63.0	-	-	1.71	91.0	84.6	87.8	7.5	100	123	134	149	164	200	249	333	374	420	.9	.6
416	6	-	-	-	-	92.9	85.6	89.3	8.2	99	116	130	150	169	213	263	341	380	408	1.1	.9
417	24	61.1	.020	1	2.25	92.2	86.1	89.2	7.7	99	118	131	146	163	203	254	334	372	409	.9	1.0
418	16	59.4	.052	2	2.24	93.6	86.0	89.8	8.3	96	115	128	148	168	213	269	346	379	414	.9	1.2
419	2	59.6	-	-	1.96	91.1	84.5	87.8	-	-	-	-	-	-	-	-	-	-	-	-	-
420	24	61.7	.057	1	1.87	91.9	85.1	88.5	7.3	102	122	134	149	165	202	250	339	377	413	1.1	1.0
421	14	64.4	.016	1	2.66	91.5	86.2	88.9	8.4	98	115	129	146	164	203	249	331	368	415	1.0	1.1
422	15	57.8	.046	1	1.81	93.4	86.5	90.0	7.2	102	120	133	149	166	208	262	336	369	403	.9	1.1
423	3	61.3	-	-	1.47	91.8	85.4	88.6	9.0	94	115	126	145	163	212	264	336	368	416	.8	1.2
424	25	59.5	.039	1	1.92	92.6	85.8	89.2	7.8	99	117	132	151	169	213	262	331	366	416	.9	1.1
425	28	57.0	.043	3	1.48	93.6	85.3	89.5	7.7	101	117	131	149	167	215	269	341	368	411	.9	1.4
426	41	59.4	.042	2	2.25	92.9	85.3	89.1	7.9	99	117	132	153	173	217	266	337	369	406	.9	1.2
427	17	57.5	.027	1	1.22	94.7	85.7	90.2	8.0	97	112	129	151	173	221	271	337	366	414	1.0	1.5
AVERAGE		60.0	.041	1	1.94	92.4	85.4	88.9	8.0	98	117	130	149	168	211	262	337	372	412	.9	1.2
SAMPLES	259																				

TABLE 3. - MOTOR GASOLINE SURVEY, SUMMER 1972
AVERAGE DATA FOR DIFFERENT BRANDS--CONTINUED

DIST. 13 SOUTH MT. STATES--CONTINUED
SW KANS., OKLA. AND TEX. PANHANDLES, W. TEX., N. MEX., COLO., UTAH, ARIZ., NEV., AND E. CALIF.

PREMIUM-PRICE GASOLINE

ITEM	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES %	LOSS %
428	6	60.8	-	-	2.81	98.4	89.8	94.1	8.5	92	109	126	153	180	228	271	342	373	416	0.6	1.7
429	10	61.0	0.034	1	2.08	96.9	89.4	93.2	8.8	95	111	127	153	179	228	277	345	380	409	1.0	1.2
430	26	58.9	.024	2	2.25	98.9	91.4	95.2	8.4	94	111	127	150	173	218	259	329	365	411	1.0	1.7
431	3	61.6	-	-	1.87	97.1	89.3	93.2	7.9	94	109	126	152	175	220	263	325	360	410	.5	1.5
432	18	61.7	.018	-	2.11	97.9	90.7	94.3	8.4	96	116	132	156	179	222	263	333	372	407	.9	1.3
433	24	62.0	.027	1	2.61	99.1	92.6	95.9	8.1	98	116	130	150	173	216	251	325	366	403	.9	1.1
434	16	61.7	.034	2	2.41	99.2	91.9	95.6	8.7	93	114	128	151	176	221	261	331	362	410	.8	1.3
435	3	59.4	-	-	2.42	97.2	89.2	93.2	8.2	92	112	135	166	192	232	271	338	370	422	.8	1.7
436	23	64.4	.030	1	1.87	98.1	91.1	94.6	8.2	97	115	128	146	167	215	250	327	370	409	1.0	1.3
437	14	66.0	.014	1	2.93	98.5	93.1	95.8	8.6	93	111	127	148	172	219	257	338	375	416	.9	1.5
438	16	58.1	.030	1	2.34	99.9	92.3	96.1	7.5	100	120	135	156	179	219	255	320	354	396	1.0	1.0
439	3	61.0	-	-	2.43	97.1	89.5	93.3	8.8	91	108	124	148	170	215	265	339	376	424	.6	1.9
440	24	61.4	.024	2	2.32	98.8	92.1	95.5	8.2	95	114	131	154	177	221	260	334	375	415	1.0	1.3
441	27	57.8	.024	3	1.82	99.3	91.7	95.5	8.0	96	117	135	161	184	225	267	328	362	404	1.0	1.4
442	41	60.7	.020	1	2.56	98.6	91.6	95.1	7.9	97	116	133	156	179	222	260	320	351	389	1.0	1.3
443	16	58.0	.031	2	2.74	98.5	91.3	94.9	8.4	95	113	130	154	177	224	272	339	376	425	1.0	1.5
AVERAGE		60.9	.026	2	2.35	98.3	91.1	94.7	8.3	95	113	130	153	177	222	263	332	368	410	.9	1.4
SAMPLES	270																				

TABLE 3. - MOTOR GASOLINE SURVEY, SUMMER 1972
AVERAGE DATA FOR DIFFERENT BRANDS--CONTINUED

DIST. 14 NORTH MT. STATES
WYO., MONT., IDAHO, EASTERN WASH., AND EASTERN OREG.

REGULAR-PRICE GASOLINE

ITEM	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES LOSS %	%
444	11	59.2	.110	3	1.34	94.0	84.8	89.4	9.4	88	105	118	141	159	214	270	344	377	412	0.7	1.9
445	8	60.3	.090	3	1.85	93.3	85.9	89.6	9.5	94	111	122	145	163	213	263	329	359	408	.9	2.1
446	12	60.3	.110	3	1.25	93.0	85.9	89.5	9.3	97	110	121	143	164	209	261	342	381	413	1.1	1.4
447	10	59.1	.100	4	1.25	94.6	83.7	89.2	9.2	94	108	122	142	164	214	272	345	381	406	1.0	1.4
448	6	61.0	-	-	1.40	93.4	85.5	89.5	9.6	90	106	120	140	162	203	251	326	364	420	.9	2.1
449	6	60.8	-	-	1.66	93.3	85.4	89.4	8.9	93	113	126	146	164	206	256	331	369	410	.9	1.4
450	20	60.5	.080	0	1.55	92.9	85.3	89.1	8.8	95	111	125	146	167	213	265	345	386	422	1.2	1.6
451	7	60.1	.110	4	1.68	94.9	85.7	90.3	9.7	92	102	118	141	164	207	256	333	360	409	.9	2.7
452	4	-	-	-	-	92.9	85.9	89.4	-	-	-	-	-	-	-	-	-	-	-	-	-
453	10	61.4	.020	1	1.54	93.1	86.3	89.7	10.2	90	107	118	138	159	197	251	333	374	422	.8	1.2
454	10	64.2	.010	1	1.60	93.1	86.9	90.0	9.2	94	106	122	143	162	202	246	316	344	380	.9	2.0
455	16	59.7	.080	2	1.42	93.9	84.6	89.3	9.5	95	108	121	141	163	212	269	347	379	412	1.0	1.3
456	11	61.0	.070	2	1.66	93.3	85.9	89.6	9.4	93	110	122	140	160	202	254	331	367	415	.9	1.1
457	2	60.0	-	-	1.39	94.7	85.5	90.1	9.4	93	106	118	137	154	216	262	338	374	404	1.0	1.5
AVERAGE		60.6	.078	2	1.51	93.6	85.5	89.6	9.4	93	108	121	142	162	208	260	335	370	410	.9	1.7
SAMPLES	133																				

TABLE 3. - MOTOR GASOLINE SURVEY, SUMMER 1972
AVERAGE DATA FOR DIFFERENT BRANDS--CONTINUED

DIST. 14 NORTH MT. STATES--CONTINUED
WYO., MONT., IDAHO, EASTERN WASH., AND EASTERN OREG.

PREMIUM-PRICE GASOLINE

ITEM	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES LOSS %	%
458	11	63.6	0.040	0	1.89	99.7	91.4	95.6	10.1	93	107	123	161	179	218	242	305	339	385	1.0	2.0
459	8	63.8	.050	1	2.17	99.3	92.1	95.7	9.9	90	113	122	147	179	210	253	320	353	404	.9	1.2
460	18	64.0	.050	0	1.99	98.8	91.1	95.0	9.2	95	109	125	150	176	217	257	338	375	411	1.0	1.9
461	10	63.1	.040	0	1.95	99.5	90.2	94.9	9.8	91	106	123	152	179	219	250	316	352	378	.9	1.9
462	6	64.8	-	-	1.70	99.1	90.6	94.9	9.5	96	107	119	144	174	214	245	322	372	423	.9	1.4
463	6	63.7	-	-	1.83	99.0	91.4	95.2	9.4	93	110	127	155	180	221	254	321	366	398	.9	1.2
464	20	61.4	.020	0	2.31	99.1	91.1	95.1	9.6	94	111	128	157	185	226	260	343	385	416	1.1	2.0
465	7	64.1	.040	4	1.91	100.2	91.7	96.0	9.8	92	100	125	155	180	218	245	301	340	382	.9	2.9
466	4	-	-	-	-	99.9	91.7	95.8	-	-	-	-	-	-	-	-	-	-	-	-	-
467	9	66.2	.030	1	2.23	99.1	92.3	95.7	10.0	95	108	124	151	179	218	244	316	358	414	1.0	2.3
468	10	68.0	.010	1	2.24	99.1	92.9	96.0	9.4	93	109	123	143	161	204	235	297	335	370	1.0	1.9
469	16	63.0	.040	6	2.03	99.5	90.6	95.1	10.4	91	104	119	146	172	216	250	316	352	388	1.0	1.7
470	10	63.8	.050	7	2.03	99.1	91.6	95.4	9.2	94	114	127	156	182	221	252	319	362	408	.9	1.6
471	3	65.3	-	-	2.05	100.2	92.0	96.1	9.4	90	103	118	147	176	216	238	307	340	380	.9	1.6
AVERAGE		64.2	.037	2	2.03	99.4	91.5	95.5	9.7	93	108	123	151	177	217	248	317	356	397	1.0	1.8
SAMPLES	138																				

TABLE 3. - MOTOR GASOLINE SURVEY, SUMMER 1972
AVERAGE DATA FOR DIFFERENT BRANDS--CONTINUED

DIST. 15 PACIFIC NORTHWEST
WESTERN WASH. AND WESTERN OREG.

REGULAR-PRICE GASOLINE

ITEM	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES LOSS %	%
472	10	59.3	0.006	2	2.26	92.4	87.5	90.0	11.7	87	95	113	144	171	224	273	335	365	410	1.3	3.3
473	6	63.2	.010	3	2.37	93.7	87.4	90.6	9.4	90	105	118	139	153	200	243	333	378	412	.9	1.9
474	4	64.1	.010	0	3.52	93.3	88.6	91.0	9.4	94	109	120	138	152	189	240	305	331	368	.8	1.0
475	5	61.7	.009	1	2.59	93.7	87.3	90.5	9.8	92	108	122	141	161	199	240	319	359	403	.9	1.4
476	13	63.3	.022	3	2.34	94.0	87.4	90.7	9.4	95	109	122	141	159	198	244	340	371	417	1.0	1.2
477	11	61.5	.018	1	2.30	93.0	87.4	90.2	10.2	91	104	116	137	158	205	260	336	367	403	1.1	1.8
478	10	61.7	.009	1	2.51	93.2	87.4	90.3	10.1	93	103	118	141	161	207	256	328	363	409	1.0	1.9
479	10	61.5	.018	1	2.62	93.4	87.0	90.2	9.2	91	108	122	144	165	209	256	342	379	413	1.0	1.2
480	10	63.4	.019	1	2.23	93.4	87.3	90.4	9.9	93	106	118	138	158	197	244	330	368	413	1.1	1.6
AVERAGE		62.2	.013	1	2.53	93.3	87.5	90.4	9.9	92	105	119	140	160	203	251	330	365	405	1.0	1.7
SAMPLES	79																				

TABLE 3. - MOTOR GASOLINE SURVEY, SUMMER 1972
AVERAGE DATA FOR DIFFERENT BRANDS--CONTINUED

DIST. 15 PACIFIC NORTHWEST--CONTINUED
WESTERN WASH. AND WESTERN OREG.

PREMIUM-PRICE GASOLINE

ITEM	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	5	10	20	30	50	70	90	95	EP	RES %	LOSS %
											PERCENT EVAPORATED										
481	10	54.8	0.006	1	2.79	99.0	91.3	95.2	11.6	85	94	109	139	176	239	292	348	376	422	1.2	2.8
482	6	63.5	.010	2	2.24	100.1	91.7	95.9	9.0	96	109	123	147	176	209	245	306	337	389	1.0	2.0
483	4	57.8	.010	0	3.53	99.8	93.0	96.4	10.2	86	102	114	136	161	220	264	322	354	387	.9	1.4
484	4	61.4	.010	0	2.62	100.1	91.8	96.0	9.8	95	110	124	148	173	217	255	309	346	393	1.1	1.7
485	13	63.2	.008	2	2.08	100.2	91.6	95.9	9.2	94	109	126	148	165	209	242	303	341	388	1.0	1.4
486	11	64.2	.012	0	2.47	99.5	92.7	96.1	9.8	92	104	117	134	152	193	233	299	328	378	1.0	1.5
487	10	61.4	.007	1	2.46	99.6	92.0	95.8	9.7	91	107	120	142	167	212	254	316	352	393	1.1	1.3
488	10	60.8	.007	4	2.46	99.9	91.6	95.8	9.6	92	105	121	147	175	223	263	318	346	387	1.0	1.6
489	10	62.7	.015	1	2.53	100.0	91.6	95.8	9.8	93	105	120	144	167	212	250	308	340	394	1.0	1.5
AVERAGE		61.1	.009	1	2.58	99.8	91.9	95.9	9.9	92	105	119	143	168	215	255	314	347	392	1.0	1.7
SAMPLES	78																				

TABLE 3. - MOTOR GASOLINE SURVEY, SUMMER 1972
AVERAGE DATA FOR DIFFERENT BRANDS--CONTINUED

DIST. 16 NORTH CALIFORNIA

REGULAR-PRICE GASOLINE

ITEM	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES LOSS %	%
490	8	59.1	0.060	2	2.11	94.6	85.6	90.1	8.4	97	114	128	149	169	213	264	336	364	410	1.1	1.6
491	3	60.5	-	-	1.29	92.0	82.5	87.3	8.6	93	114	128	146	165	204	251	322	355	396	.9	1.6
492	6	58.9	.040	1	1.52	95.3	86.0	90.7	8.9	94	112	125	148	170	216	265	331	357	403	1.0	1.3
493	5	58.1	.025	0	2.46	95.2	88.0	91.6	8.4	97	113	128	152	174	226	274	331	355	395	1.0	1.6
494	9	59.3	.050	0	2.40	94.7	85.5	90.1	8.4	100	115	129	148	167	211	260	334	361	395	1.0	1.7
495	3	60.8	-	-	1.05	92.3	82.8	87.6	8.8	94	111	124	146	166	208	256	328	353	390	.9	.6
496	8	59.1	.029	9	2.31	94.8	86.2	90.5	8.2	99	115	127	146	165	214	276	354	383	416	1.0	1.2
497	8	60.9	.041	0	2.38	94.5	86.3	90.4	8.5	95	115	130	148	166	205	248	320	354	409	1.0	1.5
498	9	60.7	.012	2	.47	94.8	86.0	90.4	8.3	96	115	127	144	161	203	252	321	348	399	1.0	1.4
499	9	59.5	.048	2	1.55	95.1	85.2	90.2	8.5	98	111	125	144	164	208	262	332	359	404	1.0	1.9
500	8	54.7	.013	1	.44	95.8	86.0	90.9	8.4	95	113	130	154	176	223	267	319	336	389	1.0	1.7
AVERAGE		59.2	.035	2	1.63	94.5	85.5	90.0	8.5	96	113	127	148	168	212	261	330	357	401	1.0	1.5
SAMPLES	76																				

TABLE 3. - MOTOR GASOLINE SURVEY, SUMMER 1972
AVERAGE DATA FOR DIFFERENT BRANDS--CONTINUED

DIST. 16 NORTH CALIFORNIA--CONTINUED

PREMIUM-PRICE GASOLINE

ITEM	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	MOT, ASTM D2700	R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES %	LOSS %
501	8	57.7	0.014	3	2.28	100.0	91.4	95.7	8.4	96	114	133	158	179	222	264	329	359	397	1.0	1.6
502	3	58.4	-	-	2.13	99.9	91.7	95.8	9.0	90	110	124	152	177	220	262	321	352	390	.6	2.4
503	6	57.4	.016	2	1.87	99.9	92.0	96.0	9.0	97	114	131	156	178	220	259	321	348	393	1.0	1.8
504	5	55.1	.014	0	2.41	99.8	91.7	95.8	8.6	94	112	129	155	182	230	272	328	356	410	1.0	1.5
505	8	58.9	.018	0	2.40	100.1	91.7	95.9	8.4	96	114	131	154	176	218	259	329	358	412	1.0	1.7
506	3	57.9	-	-	1.88	100.1	91.3	95.7	9.0	90	105	124	154	180	225	266	324	352	370	.7	1.4
507	8	54.9	.010	4	1.56	100.3	90.9	95.6	8.0	93	114	134	161	186	228	270	331	363	410	1.0	1.5
508	8	58.3	.018	0	2.75	99.7	91.3	95.5	8.5	95	111	128	148	165	204	249	319	349	400	1.0	2.1
509	8	57.6	.007	1	2.74	99.9	91.3	95.6	8.4	98	114	127	144	161	201	251	319	349	401	1.0	1.5
510	8	57.3	.015	2	1.81	100.2	91.8	96.0	8.7	95	112	129	153	177	220	261	320	350	403	1.0	1.9
511	7	55.6	.006	1	3.34	99.5	91.8	95.7	8.1	93	111	128	150	172	221	271	326	354	411	1.0	1.5
AVERAGE		57.2	.013	1	2.29	99.9	91.5	95.7	8.6	94	112	129	153	176	219	262	324	354	400	.9	1.7
SAMPLES	72																				

TABLE 3. - MOTOR GASOLINE SURVEY, SUMMER 1972
AVERAGE DATA FOR DIFFERENT BRANDS--CONTINUED

DIST. 17 SOUTH CALIFORNIA

REGULAR-PRICE GASOLINE

ITEM	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES %	LOSS %
512	12	56.6	0.054	1	1.19	94.3	85.0	89.7	8.8	95	112	127	152	177	230	285	350	377	416	1.0	1.5
513	3	59.0	-	-	1.27	91.8	85.3	88.6	8.9	98	113	125	145	161	190	219	301	341	407	.5	2.5
514	5	57.3	.067	0	1.73	94.5	85.7	90.1	8.5	93	110	123	144	165	215	273	348	377	413	1.1	1.6
515	9	58.4	.111	1	1.77	94.1	86.1	90.1	9.0	94	108	121	139	159	208	266	339	377	419	1.1	1.7
516	7	58.8	.072	2	1.89	94.4	85.7	90.1	8.8	94	114	128	145	163	204	261	347	378	408	1.1	1.2
517	3	60.4	-	-	1.34	91.3	84.6	88.0	-	-	-	-	-	-	-	-	-	-	-	-	-
518	14	57.7	.058	1	1.73	94.4	85.4	89.9	8.0	98	116	131	148	167	210	279	362	390	420	1.1	1.5
519	14	55.0	.060	1	.94	94.9	85.1	90.0	8.2	94	110	124	145	167	228	295	369	392	426	1.0	1.6
520	15	58.9	.055	1	.63	93.9	85.3	89.6	8.6	96	112	123	140	158	202	255	320	350	394	1.1	1.4
521	14	55.3	.045	2	.72	94.6	84.7	89.7	8.7	95	111	128	153	179	229	281	340	366	403	1.0	1.4
522	11	58.8	.029	0	.50	94.0	85.5	89.8	8.9	92	108	122	145	169	222	286	364	394	429	1.0	1.4
AVERAGE		57.8	.061	1	1.25	93.8	85.3	89.6	8.6	95	111	125	146	167	214	270	344	374	414	1.0	1.6
SAMPLES	107																				

TABLE 3. - MOTOR GASOLINE SURVEY, SUMMER 1972
AVERAGE DATA FOR DIFFERENT BRANDS--CONTINUED

DIST. 17 SOUTH CALIFORNIA--CONTINUED

PREMIUM-PRICE GASOLINE

ITEM	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES %	LOSS %
523	10	57.6	0.041	1	2.33	99.9	91.3	95.6	8.8	93	107	121	140	163	224	271	327	354	401	1.1	1.3
524	3	53.8	-	-	2.28	99.9	90.8	95.4	7.7	99	134	158	189	212	246	275	321	344	403	.9	1.1
525	5	57.9	.044	1	2.92	100.1	91.6	95.9	8.7	92	110	125	148	173	224	268	332	362	416	1.1	1.3
526	8	58.2	.043	1	3.64	99.9	92.3	96.1	9.0	93	109	124	148	170	218	265	333	366	414	1.0	1.8
527	7	59.1	.042	2	2.34	100.1	91.3	95.7	9.2	88	105	118	139	161	214	257	314	346	392	1.1	1.1
528	3	54.5	-	-	3.07	100.3	92.0	96.2	8.6	92	114	134	165	196	238	278	337	367	402	.8	1.2
529	12	56.2	.025	1	2.11	100.2	91.0	95.6	8.4	95	114	131	156	180	222	263	327	359	406	1.1	1.5
530	11	58.1	.061	0	2.16	100.1	91.2	95.7	8.6	95	114	128	152	176	218	257	322	360	416	1.1	1.7
531	15	59.9	.049	3	2.63	99.3	91.3	95.3	9.0	95	111	124	143	162	199	243	305	339	386	1.0	1.3
532	12	58.5	.034	1	2.84	99.6	91.6	95.6	8.7	94	111	128	151	175	219	263	321	354	394	1.0	1.5
533	10	56.5	.043	0	3.34	99.5	91.3	95.4	8.8	92	109	126	152	178	227	268	333	380	424	1.0	1.6
AVERAGE		57.3	.042	1	2.70	99.9	91.4	95.7	8.7	93	113	129	153	177	223	264	325	357	405	1.0	1.4
SAMPLES	96																				

TABLE 4. - MOTOR GASOLINE SURVEY, SUMMER 1972
AVERAGE DATA FOR BRANDS IN EACH DISTRICT

REGULAR-PRICE GASOLINE

DISTRICT NO. AND NAME	NO. OF BRANDS	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES LOSS %	%
1 NORTHEAST	14	74	60.9	0.037	1	2.21	94.9	87.0	91.0	9.8	87	104	117	137	158	206	266	340	370	408	1.0	1.7
2 MID-ATLANTIC COAST	17	258	60.1	.035	1	1.99	94.9	86.8	90.9	9.6	89	106	119	141	162	209	266	342	373	410	1.0	1.8
3 SOUTHEAST	20	180	60.2	.037	1	2.27	94.6	86.9	90.8	9.2	91	106	119	139	160	206	263	342	372	413	1.0	1.8
4 APPALACHIAN	18	168	60.7	.031	1	2.05	94.8	87.2	91.0	9.9	88	106	118	139	160	207	263	342	375	416	.9	1.5
5 MICHIGAN	15	116	60.3	.036	2	1.93	94.6	86.8	90.7	9.7	88	103	118	139	161	209	264	340	372	413	.9	1.7
6 NORTH ILLINOIS	13	75	60.1	.043	1	2.22	94.8	86.6	90.7	9.7	91	107	120	140	162	209	263	341	375	410	1.0	1.5
7 CENTRAL MISSISSIPPI	20	121	60.1	.038	1	1.95	94.7	86.7	90.7	9.0	88	108	121	144	166	215	269	345	378	414	.8	1.4
8 LOWER MISSISSIPPI	18	129	61.1	.040	1	2.46	94.3	86.9	90.6	9.2	92	109	121	140	160	203	259	341	373	413	.9	1.5
9 NORTH PLAINS	13	62	61.7	.062	1	2.01	92.7	85.4	89.1	9.3	92	111	125	146	167	211	263	344	379	414	.9	1.2
10 CENTRAL PLAINS	20	145	61.0	.048	1	2.03	93.6	86.0	89.8	9.1	91	109	122	142	162	207	263	343	379	414	.9	1.2
11 SOUTH PLAINS	20	130	61.5	.040	1	2.24	93.3	86.3	89.8	8.7	91	107	121	140	160	204	259	338	373	414	1.0	1.6
12 SOUTH TEXAS	15	100	61.1	.040	1	2.48	94.1	86.7	90.4	8.7	96	112	124	141	160	201	257	331	365	406	1.0	1.3
13 SOUTH MOUNTAIN STATES	16	259	60.0	.041	1	1.94	92.4	85.4	88.9	8.0	98	117	130	149	168	211	262	337	372	412	.9	1.2
14 NORTH MOUNTAIN STATES	14	133	60.6	.078	2	1.51	93.6	85.5	89.6	9.4	93	108	121	142	162	208	260	335	370	410	.9	1.7
15 PACIFIC NORTHWEST	9	79	62.2	.013	1	2.53	93.3	87.5	90.4	9.9	92	105	119	140	160	203	251	330	365	405	1.0	1.7
16 NORTH CALIFORNIA	11	76	59.2	.035	2	1.63	94.5	85.5	90.0	8.5	96	113	127	148	168	212	261	330	357	401	1.0	1.5
17 SOUTH CALIFORNIA	11	107	57.8	.061	1	1.25	93.8	85.3	89.6	8.6	95	111	125	146	167	214	270	344	374	414	1.0	1.6
AVERAGE			60.5	.042	1	2.04	94.1	86.4	90.3	9.2	92	108	122	142	163	208	262	339	372	411	.9	1.5
SAMPLES 2,212																						

TABLE 4. - MOTOR GASOLINE SURVEY, SUMMER 1972
AVERAGE DATA FOR BRANDS IN EACH DISTRICT--CONTINUED

PREMIUM-PRICE GASOLINE

DISTRICT NO. AND NAME	NO. OF BRANDS	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES %	LOSS %
1 NORTHEAST	15	73	58.9	0.012	1	2.82	100.5	92.2	96.4	9.7	87	103	117	139	164	217	265	319	347	390	1.0	1.7
2 MID-ATLANTIC COAST	18	257	59.1	.016	1	2.50	100.4	92.3	96.4	9.7	89	106	121	145	169	219	262	321	350	394	.9	1.7
3 SOUTHEAST	20	173	60.4	.015	1	2.82	100.0	92.3	96.2	9.4	90	106	119	141	165	213	256	325	354	401	.9	1.7
4 APPALACHIAN	18	164	60.2	.021	1	2.35	100.1	92.6	96.4	10.1	88	106	120	145	170	217	259	327	360	402	.9	1.8
5 MICHIGAN	15	92	61.1	.022	1	2.40	99.6	92.2	95.9	10.2	88	104	120	144	169	215	254	324	356	400	.8	1.7
6 NORTH ILLINOIS	13	75	62.1	.022	1	2.34	99.9	92.7	96.3	9.9	88	105	121	145	170	215	253	322	358	399	.9	1.7
7 CENTRAL MISSISSIPPI	21	121	61.0	.032	-	2.46	100.0	92.4	96.2	9.1	87	108	124	150	175	218	257	329	363	404	.8	1.4
8 LOWER MISSISSIPPI	19	137	60.2	.033	0	2.78	100.1	92.4	96.3	9.1	91	110	123	146	171	215	255	323	354	401	.9	1.4
9 NORTH PLAINS	14	67	64.5	.044	1	2.53	99.4	92.8	96.1	9.4	91	112	130	156	181	219	253	329	366	404	.9	1.3
10 CENTRAL PLAINS	20	152	62.0	.037	1	2.42	99.6	92.3	96.0	9.1	90	108	123	147	170	214	253	325	363	406	.8	1.3
11 SOUTH PLAINS	20	129	62.1	.034	1	2.70	99.5	93.0	96.3	8.9	90	107	123	148	175	219	256	328	364	408	1.0	1.5
12 SOUTH TEXAS	15	108	59.8	.023	1	2.75	99.8	92.0	95.9	8.8	93	110	123	146	167	214	256	324	352	397	1.0	1.3
13 SOUTH MOUNTAIN STATES	16	270	60.9	.026	2	2.35	98.3	91.1	94.7	8.3	95	113	130	153	177	222	263	332	368	410	.9	1.4
14 NORTH MOUNTAIN STATES	14	138	64.2	.037	2	2.03	99.4	91.5	95.5	9.7	93	108	123	151	177	217	248	317	356	397	1.0	1.8
15 PACIFIC NORTHWEST	9	78	61.1	.009	1	2.58	99.8	91.9	95.9	9.9	92	105	119	143	168	215	255	314	347	392	1.0	1.7
16 NORTH CALIFORNIA	11	72	57.2	.013	1	2.29	99.9	91.5	95.7	8.6	94	112	129	153	176	219	262	324	354	400	.9	1.7
17 SOUTH CALIFORNIA	11	96	57.3	.042	1	2.70	99.9	91.4	95.7	8.7	93	113	129	153	177	223	264	325	357	405	1.0	1.4
AVERAGE			60.7	.026	1	2.52	99.8	92.2	96.0	9.3	91	108	123	147	172	217	257	324	357	401	.9	1.6
SAMPLES 2,202																						

TABLE 5. - MOTOR GASOLINE SURVEY, SUMMER 1972
DATA FOR SOME ADDITIONAL GRADES

THIRD-GRADE GASOLINE

DISTRICT AND ITEM NUMBERS	SAMPLES	GR, ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	5	10	20	30	50	70	90	95	EP	RES %	LOSS %
1 534	1	57.5	-	-	-	91.7	82.4	87.1	8.9	88	106	120	140	160	216	284	338	366	420	1.0	1.0
1 535	1	57.8	-	-	0.49	97.5	86.5	92.0	11.4	76	-	100	120	-	203	-	316	-	400	1.0	2.0
1 536	4	57.5	0.022	1	.41	91.5	83.4	87.5	9.6	88	113	121	146	179	231	300	360	388	428	1.0	1.4
1 537	3	66.0	.023	-	-	92.3	83.8	88.1	8.4	90	110	125	148	169	209	246	317	360	410	1.0	1.0
1 538	3	58.1	.007	1	.41	94.8	87.3	91.1	9.7	88	112	116	140	173	223	269	322	346	401	.9	1.6
1 539	2	57.2	.014	1	.41	94.0	85.5	89.8	9.0	98	114	128	151	173	225	261	308	321	368	1.0	2.0
2 540	14	60.4	.047	2	.02	94.1	82.8	88.5	10.2	89	105	119	14:	165	215	264	325	350	390	.9	1.9
2 541	15	57.6	.012	1	.06	91.6	83.5	87.6	9.7	88	104	115	135	157	213	280	338	361	415	1.0	1.8
2 542	16	58.5	.024	1	.40	91.8	83.8	87.8	8.9	89	109	124	149	175	230	292	355	381	419	1.0	1.4
2 543	16	66.2	.012	1	.03	92.1	84.4	88.3	7.9	97	117	132	153	172	206	235	278	307	358	.9	1.5
2 544	14	55.7	.048	1	.31	94.5	85.6	90.1	8.9	91	117	127	149	171	216	265	315	347	393	.8	1.8
2 545	9	57.1	.011	0	.41	94.3	84.7	89.5	9.9	90	111	125	153	180	228	270	321	344	375	1.1	2.1
2 546	2	59.7	.033	2	1.57	93.3	85.6	89.5	9.4	91	104	115	133	153	205	281	355	386	420	1.0	3.0
3 547	9	58.3	.024	2	.04	92.6	82.6	87.6	9.2	89	107	116	137	160	207	266	329	351	400	.8	1.6
3 548	9	60.7	.074	1	.43	91.5	84.1	87.8	9.3	88	107	116	136	158	204	261	334	367	405	1.0	1.2
3 549	10	65.5	.020	1	.02	92.1	84.2	88.2	9.2	93	109	120	138	161	205	242	324	363	410	1.0	1.4
3 550	12	61.6	.020	1	.07	92.0	83.7	87.9	8.8	95	114	125	144	162	200	240	324	358	418	1.0	1.5
3 551	7	62.4	.010	1	.46	93.9	86.1	90.0	10.3	90	102	115	139	165	216	257	309	333	385	.7	1.9
4 552	3	59.0	.039	1	.03	92.0	82.2	87.1	8.9	94	112	123	141	160	209	278	332	356	387	1.0	1.0
4 553	7	57.4	.007	1	.04	91.8	83.5	87.7	10.0	87	103	114	133	154	208	277	333	358	407	.9	2.1
4 554	1	58.1	.033	0	.95	94.6	85.6	90.1	10.7	92	102	115	137	164	221	285	357	387	432	1.0	3.0
4 555	17	59.9	.022	0	.43	91.5	84.0	87.8	10.2	89	107	119	143	168	218	275	343	372	407	.9	1.7

TABLE 5. - MOTOR GASOLINE SURVEY, SUMMER 1972
DATA FOR SOME ADDITIONAL GRADES--CONTINUED

THIRD-GRADE GASOLINE--CONTINUED

DISTRICT AND ITEM NUMBERS	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES %	LOSS %
4 556	7	59.6	.021	1	.09	92.2	83.7	88.0	9.4	90	110	122	147	172	219	265	340	369	409	.9	1.3
4 557	11	62.1	.010	0	.02	92.1	84.7	88.4	8.3	94	115	128	149	168	203	236	288	313	364	.8	1.3
4 558	14	60.3	.016	0	.51	94.7	87.1	90.9	10.5	83	100	115	137	161	212	260	321	347	395	.8	1.2
4 559	16	58.1	.013	1	.03	92.1	83.7	87.9	9.3	89	109	123	150	175	224	270	327	349	396	.9	1.7
4 560	2	60.2	.021	2	1.60	92.9	85.5	89.2	10.0	97	112	122	141	161	207	279	354	381	414	1.0	2.0
4 561	9	58.0	.008	1	.49	93.9	85.0	89.5	9.7	91	108	126	153	182	231	271	324	347	384	.9	2.3
5 562	5	61.3	.056	3	.17	91.4	82.9	87.2	10.6	90	110	120	143	167	213	252	310	343	381	.8	1.6
5 563	1	57.3	-	-	-	91.9	82.3	87.1	-	-	-	-	-	-	-	-	-	-	-	-	-
5 564	1	57.2	.013	0	1.83	94.4	87.1	90.8	9.5	86	103	118	143	169	223	276	339	371	421	1.0	2.0
5 565	5	63.1	.021	1	.37	90.5	83.7	87.1	10.1	86	104	118	142	164	206	251	320	356	392	1.1	1.6
5 566	6	58.6	.031	1	.21	91.8	83.4	87.6	9.9	89	106	123	147	173	224	272	326	360	395	.9	1.3
5 567	5	60.7	.043	2	.07	92.3	82.8	87.6	9.8	89	108	120	142	165	217	268	356	395	425	.9	1.3
5 568	6	61.0	.012	1	.13	92.8	85.5	89.2	9.1	90	110	125	148	168	207	242	302	332	380	.9	1.3
5 569	5	60.2	.026	1	.49	94.4	87.3	90.9	9.8	94	113	125	149	172	213	252	313	344	392	.9	1.5
5 570	6	38.2	.013	0	.04	92.4	83.7	88.1	9.5	92	114	126	151	175	223	271	330	358	393	1.0	1.5
5 571	2	60.2	.019	3	1.64	92.9	85.2	89.1	9.9	90	104	117	145	167	210	278	352	374	415	1.1	1.5
6 572	4	62.7	.035	1	.27	91.6	82.4	87.0	9.8	86	104	118	140	163	210	253	313	342	396	.9	1.2
6 573	4	61.3	.046	0	.02	91.7	82.0	86.9	12.0	82	95	107	130	155	206	260	347	380	417	1.0	1.8
6 574	4	59.1	.017	1	.08	92.2	83.9	88.1	9.3	86	102	122	149	172	219	265	336	380	407	1.0	1.3
6 575	4	61.5	.007	1	.01	92.5	85.3	88.9	9.3	89	104	119	139	159	202	237	299	323	374	1.0	1.3
6 576	3	61.6	.033	-	.45	94.2	88.8	91.5	11.0	90	-	118	152	184	221	-	308	-	395	1.0	4.0
6 577	5	59.5	.007	4	.47	93.5	86.5	90.0	10.9	87	101	120	150	173	211	241	281	320	370	1.1	2.2

TABLE 5. - MOTOR GASOLINE SURVEY, SUMMER 1972
DATA FOR SOME ADDITIONAL GRADES--CONTINUED

THIRD-GRADE GASOLINE--CONTINUED

DISTRICT AND ITEM NUMBERS	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES %	LOSS %
7 578	5	63.8	.066	-	.05	91.7	82.4	87.1	10.1	88	106	118	138	160	204	243	307	344	386	.8	1.0
7 579	3	59.1	.048	-	2.48	93.2	86.2	89.7	7.3	88	109	124	150	172	216	264	348	387	425	1.2	1.3
7 580	6	62.2	.046	-	.58	91.6	84.7	88.2	10.0	88	103	115	136	157	204	254	328	363	394	.8	1.5
7 581	8	58.8	.036	2	.12	92.2	83.8	88.0	9.3	89	114	125	149	175	221	267	337	365	407	1.0	1.0
7 582	9	60.2	.019	-	-	92.2	84.6	88.4	8.2	93	115	129	152	173	211	246	304	335	380	.7	1.3
7 583	3	58.9	.017	-	.36	94.6	87.0	90.8	9.4	87	102	114	138	166	224	265	320	345	390	.9	1.6
7 584	4	61.8	.025	0	*.00	91.7	83.2	87.5	8.4	97	114	126	146	164	200	241	323	360	418	.9	.9
8 585	5	58.2	.023	-	-	92.4	82.5	87.5	6.6	92	116	132	158	184	222	276	348	376	402	.8	1.7
8 586	5	60.2	.032	-	2.56	94.2	86.5	90.4	9.3	89	108	120	141	162	204	259	349	382	420	.9	1.6
8 587	10	60.4	.042	-	.45	91.4	84.2	87.8	9.0	90	106	118	138	156	206	257	332	361	402	.8	1.5
8 588	8	65.2	.045	-	*.00	92.1	84.3	88.2	8.9	92	114	122	142	170	207	254	331	375	413	1.0	1.4
8 589	2	62.4	.024	-	-	91.7	82.8	87.3	-	-	-	-	-	-	-	-	-	-	-	-	-
8 590	1	61.9	-	-	*.00	91.7	83.1	87.4	8.8	90	-	117	133	-	187	-	319	-	419	1.0	2.0
8 591	7	58.5	.034	-	.42	93.8	85.2	89.5	8.9	88	108	122	147	178	222	263	308	331	380	.8	1.5
9 592	2	68.9	.052	-	-	91.7	81.1	86.4	-	-	-	-	-	-	-	-	-	-	-	-	-
9 593	3	62.8	.063	-	1.57	92.2	84.8	88.5	9.3	88	107	120	140	160	202	254	334	372	418	.7	.8
9 594	3	61.0	.056	-	-	92.6	84.6	88.6	9.9	84	104	120	145	165	210	246	298	326	386	.8	1.2
9 595	2	62.1	.068	-	-	91.2	83.7	87.5	-	-	-	-	-	-	-	-	-	-	-	-	-
10 596	8	60.4	.047	-	-	91.9	82.0	87.0	9.4	91	106	120	143	165	209	253	312	339	381	.8	1.4
10 597	9	62.2	.055	-	1.59	92.3	84.9	88.6	8.8	93	106	117	134	152	193	245	324	369	407	.9	1.3
10 598	3	61.3	.084	-	.45	91.6	83.2	87.4	9.5	92	110	124	144	164	208	268	348	386	414	.9	1.1
10 599	6	63.9	.015	-	-	91.9	84.8	88.4	10.0	89	107	120	140	161	205	244	310	347	393	1.0	1.3

* Not included in average for lead.

TABLE 5. - MOTOR GASOLINE SURVEY, SUMMER 1972
DATA FOR SOME ADDITIONAL GRADES--CONTINUED

THIRD-GRADE GASOLINE--CONTINUED

DISTRICT AND ITEM NUMBERS	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES %	LOSS %
10 600	6	64.6	.033	0	.47	93.6	89.7	91.7	9.3	91	116	129	157	185	215	238	297	345	405	1.1	.7
10 601	3	61.7	.030	-	-	91.6	82.8	87.2	8.5	90	116	128	146	164	200	242	332	376	420	.8	.7
11 602	6	60.2	.039	-	2.30	92.9	86.2	89.6	8.6	92	109	124	146	166	206	258	336	371	416	.6	1.5
11 603	3	61.2	.065	-	.52	91.8	84.0	87.9	8.4	90	105	116	136	156	199	249	316	347	392	.5	2.0
11 604	3	64.7	.014	-	-	91.9	84.9	88.4	8.8	90	107	120	140	158	201	238	285	311	362	.5	2.0
11 605	4	56.8	.013	4	.39	94.3	86.9	90.6	8.6	89	104	122	147	173	231	272	326	341	399	1.0	1.5
11 606	5	61.4	.020	-	.41	93.8	85.9	89.9	9.4	88	100	115	141	168	223	246	297	332	363	.8	2.3
12 607	3	58.5	.010	1	.01	91.3	83.8	87.6	9.9	89	104	117	137	157	212	251	322	365	400	.9	1.5
12 608	6	60.0	.038	-	2.09	93.3	86.1	89.7	8.5	96	110	121	140	161	204	255	322	352	400	.7	1.6
12 609	4	61.1	-	-	.35	94.7	87.4	91.1	7.4	101	-	130	152	-	211	-	300	-	388	-	-
12 610	13	59.8	.053	0	1.26	91.7	84.1	87.9	9.0	93	105	118	138	157	205	258	343	360	417	.8	1.6
12 611	8	63.1	.014	1	.01	91.6	84.1	87.9	7.6	99	113	129	150	164	206	229	290	302	376	.9	1.4
12 612	5	56.5	.017	-	.37	95.1	87.0	91.1	8.1	90	103	120	146	172	219	256	318	348	399	.4	2.1
12 613	8	60.5	.018	1	.44	93.5	84.9	89.2	8.0	97	107	125	148	166	214	253	328	320	397	.8	2.0
13 614	6	61.0	-	-	-	89.6	81.6	85.6	10.4	88	108	122	147	173	222	267	332	363	408	.7	1.6
13 615	1	58.9	.029	-	-	92.0	83.8	87.9	-	-	-	-	-	-	-	-	-	-	-	-	-
13 616	12	61.2	.035	-	1.83	91.7	85.2	88.5	8.1	95	116	127	146	163	202	249	323	355	410	.8	1.5
13 617	9	59.4	.060	2	1.97	92.5	85.0	88.8	8.6	92	112	124	145	165	210	265	340	371	419	.7	1.9
13 618	6	61.7	.028	1	.08	91.6	84.4	88.0	7.3	96	116	135	159	182	220	254	313	343	389	.8	1.2
13 619	4	54.3	-	-	.39	94.7	84.8	89.8	7.4	103	116	135	155	173	231	283	367	386	426	.8	1.2
13 620	11	57.2	.042	2	.05	91.2	83.1	87.2	7.2	103	126	141	166	190	228	272	339	363	422	.9	1.0
13 621	6	62.7	-	-	.44	92.6	85.8	89.2	7.5	94	120	134	155	173	211	250	319	353	405	1.0	1.0

TABLE 5. - MOTOR GASOLINE SURVEY, SUMMER 1972
DATA FOR SOME ADDITIONAL GRADES--CONTINUED

THIRD-GRADE GASOLINE--CONTINUED

DISTRICT AND ITEM NUMBERS	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES %	LOSS %
14 622	2	65.4	-	-	-	91.7	82.5	87.1	9.6	90	103	118	140	160	199	240	299	335	386	.8	1.2
14 623	4	61.0	-	-	1.34	92.7	85.1	88.9	9.3	94	110	124	145	165	207	257	330	368	414	.8	1.7
14 624	4	64.9	-	-	.04	91.5	83.8	87.7	9.2	95	108	123	144	161	202	234	299	349	404	.7	1.3
14 625	5	66.0	.010	1	.04	91.2	85.3	88.3	7.6	100	129	138	157	178	204	231	297	328	370	.9	1.2
15 626	3	56.2	-	-	.07	91.3	82.3	86.8	9.4	94	112	127	155	179	231	284	338	366	398	.6	1.4
15 627	3	66.6	-	-	3.53	90.5	87.1	88.8	10.1	92	104	117	134	147	184	237	310	316	364	.5	2.0
15 628	3	63.2	-	-	-	91.7	83.1	87.4	9.7	90	104	120	139	158	198	236	299	340	400	.3	1.7
15 629	3	66.1	-	-	.51	93.1	87.3	90.2	10.1	90	99	115	137	157	197	232	284	329	371	.6	1.4
15 630	4	58.7	.010	1	*.00	91.6	83.0	87.3	7.5	102	118	130	148	163	201	243	330	351	405	.9	.9
16 631	5	57.6	.030	2	.04	92.2	83.4	87.8	9.1	92	109	122	143	166	224	275	329	354	403	1.2	1.4
16 632	5	58.2	.040	0	1.30	91.1	85.0	88.1	9.0	96	113	125	148	173	227	277	335	357	390	.9	1.5
16 633	5	62.8	.013	1	.03	91.5	83.3	87.4	8.4	96	114	125	141	155	191	230	302	339	401	.9	1.2
16 634	4	62.8	.008	-	.53	94.6	86.6	90.6	9.2	92	113	124	141	157	193	234	313	342	379	1.2	.8
16 635	6	58.6	.009	2	.04	91.6	83.0	87.3	7.7	96	119	129	145	162	199	244	323	353	404	1.0	1.1
16 636	4	56.5	.030	-	.46	94.4	85.5	90.0	8.5	93	114	127	149	172	222	272	330	356	402	1.1	.9
17 637	1	58.0	.060	1	.12	91.9	82.6	87.3	6.4	104	125	137	154	171	213	252	316	341	398	1.4	.6
17 638	6	56.6	.025	1	.01	92.4	83.2	87.8	8.7	92	109	124	146	169	224	276	326	350	410	.9	1.1
17 639	4	59.9	.100	3	.45	91.4	83.2	87.3	8.8	91	112	122	142	162	210	270	348	370	420	1.0	.7
17 640	7	60.6	.040	2	.02	91.6	82.5	87.1	7.6	99	120	131	147	162	196	234	322	360	408	1.0	1.1
17 641	5	55.3	.120	0	.43	94.4	85.0	89.7	8.0	94	116	127	148	172	220	284	352	380	417	.8	1.3
17 642	7	58.0	.044	1	.04	91.5	82.7	87.1	6.9	100	121	134	152	170	212	261	310	348	388	.9	1.2
17 643	7	54.9	.008	1	.05	92.0	83.2	87.6	8.4	96	110	127	154	181	227	271	317	336	384	.9	1.1
AVERAGE		60.4	.031	1	.55	92.5	84.4	88.5	9.1	92	110	123	145	167	212	258	323	354	399	.9	1.5
SAMPLES	641																				

* Not included in average for lead.

TABLE 5. - MOTOR GASOLINE SURVEY, SUMMER 1972
DATA FOR SOME ADDITIONAL GRADES--CONTINUED

INTERMEDIATE-GRADE GASOLINE

DISTRICT AND ITEM NUMBERS	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES %	LOSS %
1 644	3	58.8	0.048	-	0.42	97.1	87.0	92.1	9.3	90	106	120	142	162	208	268	328	350	380	0.9	1.1
2 645	1	56.4	.042	0	.82	96.1	86.4	91.3	6.7	95	-	148	172	193	227	267	327	-	417	1.1	.0
2 646	18	59.3	.022	1	.50	96.6	86.6	91.6	9.2	88	104	117	136	156	208	267	333	356	395	.9	1.4
2 647	1	53.7	.031	1	.39	97.0	86.1	91.6	6.3	103	-	145	174	201	247	286	343	-	426	1.0	.4
2 648	1	60.2	.021	1	.48	96.4	87.1	91.8	8.9	97	-	124	148	168	209	249	309	-	394	1.0	1.5
2 649	1	60.8	.048	1	1.63	93.2	85.4	89.3	9.3	81	98	111	129	148	198	276	350	378	409	.5	1.5
3 650	3	59.0	.033	2	2.34	96.3	88.2	92.3	9.4	92	105	118	141	164	211	260	339	372	412	1.0	2.3
3 651	8	55.5	.030	1	.46	97.1	86.9	92.0	9.6	90	103	117	141	166	218	260	323	349	401	.8	1.6
3 652	1	59.5	.028	1	2.33	96.6	89.1	92.9	9.4	90	108	120	142	164	212	263	342	374	420	1.0	2.0
4 653	12	56.9	.020	1	.48	97.1	86.5	91.8	9.9	86	103	118	139	163	215	264	336	367	409	.9	1.5
5 654	1	61.0	-	-	.52	94.9	86.9	90.9	-	-	-	-	-	-	-	-	-	-	-	-	-
7 655	1	56.8	.035	2	1.18	96.0	85.5	90.8	9.9	88	-	116	145	174	232	291	358	-	416	1.0	2.0
7 656	3	55.2	.015	-	.45	97.0	86.9	92.0	10.1	88	105	121	144	168	226	278	343	380	420	.7	1.1
8 657	9	55.4	.030	3	.49	97.2	86.8	92.0	9.4	88	105	117	140	166	221	268	330	361	411	.9	1.4
10 658	3	59.7	.027	-	.46	96.8	86.5	91.7	9.7	84	102	118	142	164	217	268	331	364	414	.9	1.1
11 659	3	60.1	.020	-	.51	96.1	87.0	91.6	8.5	91	107	117	134	154	198	254	319	335	363	.5	1.5
12 660	7	58.8	.023	0	.50	96.2	86.7	91.5	8.3	93	109	120	139	161	215	279	334	355	393	.8	1.2
12 661	1	56.6	.020	1	.50	96.5	86.7	91.6	8.0	94	-	117	138	157	220	282	339	-	402	1.0	2.0
13 662	3	64.9	-	-	2.95	94.0	88.3	91.2	7.8	97	112	125	146	164	201	241	308	343	400	1.0	1.0
16 663	5	59.1	.030	0	.42	96.4	86.3	91.4	9.5	95	110	122	147	170	213	256	320	337	392	.9	1.7
17 664	4	57.8	.055	-	2.11	96.3	87.7	92.0	8.9	93	109	124	145	166	215	269	338	369	417	1.0	1.3
AVERAGE		58.4	.030	1	.95	96.2	86.9	91.6	8.9	91	106	122	144	166	216	267	333	359	405	.9	1.4
SAMPLES	89																				

TABLE 5. - MOTOR GASOLINE SURVEY, SUMMER 1972
DATA FOR SOME ADDITIONAL GRADES--CONTINUED

SUPER-PREMIUM GASOLINE

DISTRICT AND ITEM NUMBERS	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES %	LOSS %
1 665	1	59.5	0.016	2	3.49	102.7	94.0	98.4	9.3	82	95	111	134	157	211	250	314	352	404	1.0	2.0
2 666	4	50.3	.015	1	*.00	102.1	90.5	96.3	10.3	82	-	115	154	191	236	257	308	-	369	.9	1.5
2 667	5	59.2	.023	1	3.43	102.5	93.6	98.1	9.9	89	107	119	141	165	216	253	322	357	405	1.0	1.7
2 668	1	55.8	.010	1	1.00	101.3	92.1	96.7	6.7	105	-	139	173	198	226	242	289	-	382	1.0	1.5
3 669	2	52.5	.022	1	*.00	102.7	90.4	96.6	10.5	87	-	117	150	183	230	253	309	-	379	1.0	1.8
3 670	1	58.7	.014	2	3.45	102.4	93.8	98.1	8.9	89	104	121	144	169	219	260	325	365	418	1.0	2.0
4 671	1	52.4	.003	1	*.00	101.4	88.4	94.9	10.6	100	112	124	152	186	230	252	310	335	364	1.0	3.0
4 672	2	58.4	.002	0	2.68	101.9	93.7	97.8	9.9	95	111	122	142	164	216	251	299	322	364	1.0	2.0
5 673	2	58.5	.007	3	2.57	102.1	93.7	97.9	9.9	89	105	120	141	164	215	249	299	320	371	1.0	1.3
8 674	1	52.7	.019	1	*.00	102.6	90.2	96.4	9.9	90	-	127	160	194	229	251	308	-	380	1.0	1.0
AVERAGE		55.8	.013	1	2.77	102.2	92.0	97.1	9.6	91	106	122	149	177	223	252	308	342	384	1.0	1.8
SAMPLES	20																				

* Not included in average for lead.

TABLE 6. - Cumulative percents of samples of all grades by research octane numbers by districts, motor-gasoline survey, summer 1972

Research octane number	District																	Cumulative total samples
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
89													0.9					5
90			0.2		0.8					0.6		0.4	3.2		0.6		0.4	27
91	1.2	2.1	1.4	2.1	3.6	1.1	2.8	1.6	3.6	2.4	0.7	4.6	10.4	3.1	4.0	3.8	6.1	180
92	5.5	7.0	8.2	12.7	9.5	8.0	9.9	7.0	21.6	20.6	11.0	12.2	28.8	17.1	14.5	13.7	17.2	702
93	7.4	8.5	10.6	15.0	15.0	10.9	12.7	11.5	47.5	35.2	31.4	20.5	38.0	26.9	35.3	15.4	19.3	1,067
94	18.4	20.4	31.6	30.9	34.0	24.7	24.3	34.4	51.8	42.1	47.3	42.6	48.0	42.0	52.6	27.5	34.8	1,817
95	47.9	49.0	51.3	56.0	59.3	51.7	52.1	50.3	51.8	53.4	53.0	55.5	53.2	47.9	54.9	50.0	58.2	2,714
96	53.4	55.5	54.5	58.3	62.5	56.9	56.3	53.2	54.0	53.7	54.1	58.2	55.9	51.7	54.9	58.8	60.7	2,888
97	55.2	57.7	56.6	60.8	63.2	56.9	57.4	55.4	59.0	55.8	54.4	59.7	65.6	52.1	54.9	60.4	61.1	3,018
98	55.8	57.8	57.3	61.8	64.8	56.9	57.7	56.1	59.0	57.3	57.2	60.5	69.0	60.5	56.1	60.4	61.5	3,096
99	57.7	59.7	61.4	63.8	73.5	69.5	60.6	58.9	72.7	83.0	80.9	66.5	84.5	77.6	63.0	62.6	63.9	3,548
100	79.1	84.4	87.5	88.0	95.7	93.1	90.5	89.2	96.4	92.8	99.3	97.0	99.5	99.7	99.4	97.8	98.4	4,789
101	98.8	96.4	95.9	99.5	99.2	99.4	100.0	96.8	100.0	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	5,103
102	99.4	99.4	99.8	100.0	100.0	100.0		99.7		100.0								5,155
103	100.0	100.0	100.0					100.0										5,162

TABLE 7. - Cumulative percents of samples of all grades by motor octane numbers by districts, motor-gasoline survey, summer 1972

Motor octane number	District																	Cumulative total samples
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
80									0.7	0.3								2
81						0.6	0.4		.7	.3			0.5					7
82	0.6	0.6	0.5	0.5	2.4	3.4	1.1	0.3	2.9	2.1			1.0	0.3	1.2	2.2	2.9	56
83	2.5	4.6	4.1	5.1	5.9	4.6	2.8	3.2	3.6	3.9		1.9	3.2	5.2	4.6	9.3	13.1	227
84	6.8	9.0	8.2	11.6	11.5	6.9	7.4	7.0	10.8	11.3	1.8	8.4	10.1	10.1	5.8	15.9	20.1	492
85	9.3	14.5	11.1	16.4	14.6	9.8	13.7	10.5	38.1	28.1	9.2	14.4	25.9	27.6	5.8	26.4	41.4	951
86	16.8	29.7	19.8	23.1	24.5	24.1	26.4	24.5	49.6	39.7	35.0	32.7	44.3	39.9	8.1	44.0	55.7	1,644
87	46.6	51.5	47.2	48.8	54.2	50.0	49.3	47.5	51.8	48.7	50.9	52.9	52.6	50.0	37.0	57.7	59.0	2,604
88	51.6	57.5	54.0	60.9	62.5	55.2	57.0	53.5	54.7	52.5	54.1	58.6	55.2	51.7	50.9	60.4	61.1	2,896
89	55.9	58.0	56.6	61.6	63.2	55.7	57.4	56.1	61.2	53.7	54.4	59.7	60.6	56.6	54.9	61.0	61.5	3,004
90	57.8	60.0	60.2	61.8	64.0	56.3	57.4	57.0	63.3	55.2	54.4	60.8	66.1	62.6	56.6	62.6	62.7	3,111
91	62.1	62.7	62.7	67.4	67.6	58.0	60.2	60.8	64.7	64.5	55.5	62.7	72.9	71.7	69.4	78.0	83.6	3,409
92	78.9	79.8	83.1	75.7	80.2	73.0	83.1	80.3	70.5	77.9	65.7	83.7	86.4	92.7	93.1	98.4	97.5	4,237
93	98.8	97.6	99.3	88.2	93.7	92.0	96.8	99.0	90.6	95.2	90.1	97.7	94.5	99.7	98.8	100.0	99.2	4,945
94	100.0	99.8	100.0	98.1	99.6	98.3	99.6	100.0	97.1	99.4	97.2	100.0	99.1	100.0	100.0		100.0	5,125
95		100.0		100.0	100.0	99.4	100.0		99.3	100.0	99.6		100.0					5,155
96						100.0			100.0		100.0							5,158

TABLE 8. - Locations and numbers of samples, motor gasoline survey, summer 1972

State	Location	Samples
District 1 (Northeast)		
Maine	Portland	40
Massachusetts	Boston area	125
	2 locations	165
District 2 (Mid-Atlantic Coast)		
Maryland	Baltimore	115
New Jersey and New York	New York City area	176
New York	Albany	10
Pennsylvania	Harrisburg	27
Pennsylvania and New Jersey	Philadelphia area	205
Rhode Island	Providence	5
Virginia	Richmond	95
	7 locations	633
District 3 (Southeast)		
Alabama	Birmingham	85
	Mobile	30
Florida	Jacksonville	26
	Miami area	49
	Tampa	16
Georgia	Atlanta	156
North Carolina	Wilmington	29
South Carolina	Charleston	4
Tennessee	Chattanooga	20
	9 locations	415
District 4 (Appalachian)		
New York	Buffalo	95
Ohio	Cincinnati	117
	Cleveland	110
	Columbus	15
Pennsylvania	Bradford	2
	Pittsburgh	89
West Virginia	Charleston	6
	7 locations	434
District 5 (Michigan)		
Michigan	Detroit	221
	Central	3
	Northern Peninsula	29
	3 locations	253
District 6 (North Illinois)		
Illinois and Indiana	Chicago area	145
Iowa	Davenport	2
Wisconsin	Madison	24
	Milwaukee	3
	4 locations	174
District 7 (Central Mississippi)		
Indiana	Evansville	36
	Indianapolis	89
Kentucky	Louisville	77
Missouri and Illinois	St. Louis area	82
	4 locations	284
District 8 (Lower Mississippi)		
Arkansas	El Dorado	2
	Little Rock	82
Louisiana	Baton Rouge	34
	Lake Charles	2
	New Orleans	77
Mississippi	Jackson	14
Tennessee	Memphis	101
	Nashville	2
	8 locations	314
District 9 (North Plains)		
Minnesota	Minneapolis-St. Paul	90
North Dakota	Fargo	16
	Williston	12
South Dakota	Rapid City	21
	4 locations	139
District 10 (Central Plains)		
Iowa	Des Moines	154
Kansas	Phillipsburg	10
Kansas and Missouri	Kansas City area	89
Nebraska	Omaha	72
	Scotts Bluff	10
	5 locations	335
District 11 (South Plains)		
Kansas	Coffeyville	6
	McPherson	10
	Wichita	63
Missouri	Springfield	10
Oklahoma	Bartlesville	6
	Oklahoma City	2
	Tulsa	96
Texas	Dallas-Fort Worth	90
	8 locations	283
District 12 (Southern Texas)		
Texas	Houston	160
	Odessa	60
	San Antonio	43
	3 locations	263
District 13 (South Mountain States)		
Arizona	Phoenix	97
	Tucson	14
California	Bakersfield	24
Colorado	Denver	110
Nevada	Las Vegas	24
	Reno	24
New Mexico	Albuquerque	99
Texas	Amarillo	85
	El Paso	24
	Lubbock	24
Utah	Salt Lake City	62
	11 locations	587
District 14 (North Mountain States)		
Idaho	Boise	67
Montana	Billings	65
	Great Falls	6
Washington	Pasco	47
	Spokane	101
	5 locations	286
District 15 (Pacific Northwest)		
Oregon	Portland	30
Washington	Seattle	143
	2 locations	173
District 16 (Northern California)		
California	San Francisco Bay area	182
	1 location	182
District 17 (Southern California and Hawaii)		
California	Los Angeles area	203
	San Diego	15
Hawaii	Honolulu	26
	3 locations	244
Total	86 locations	5,164

District	Locations	Samples	Percent
1	2	165	3.2
2	7	633	12.2
3	9	415	8.0
4	7	434	8.4
5	3	253	4.9
6	4	174	3.4
7	4	284	5.5
8	8	314	6.1
9	4	139	2.7
10	5	335	6.5
11	8	283	5.5
12	3	263	5.1
13	11	587	11.4
14	5	286	5.5
15	2	173	3.4
16	1	182	3.5
17	3	244	4.7
Total	86	5,164	100.0

143
Sea
30
Portland
15
16
182
San Francisco
Bay area
17
203
Los Angeles
area
San Di
PACIFIC OCEAN

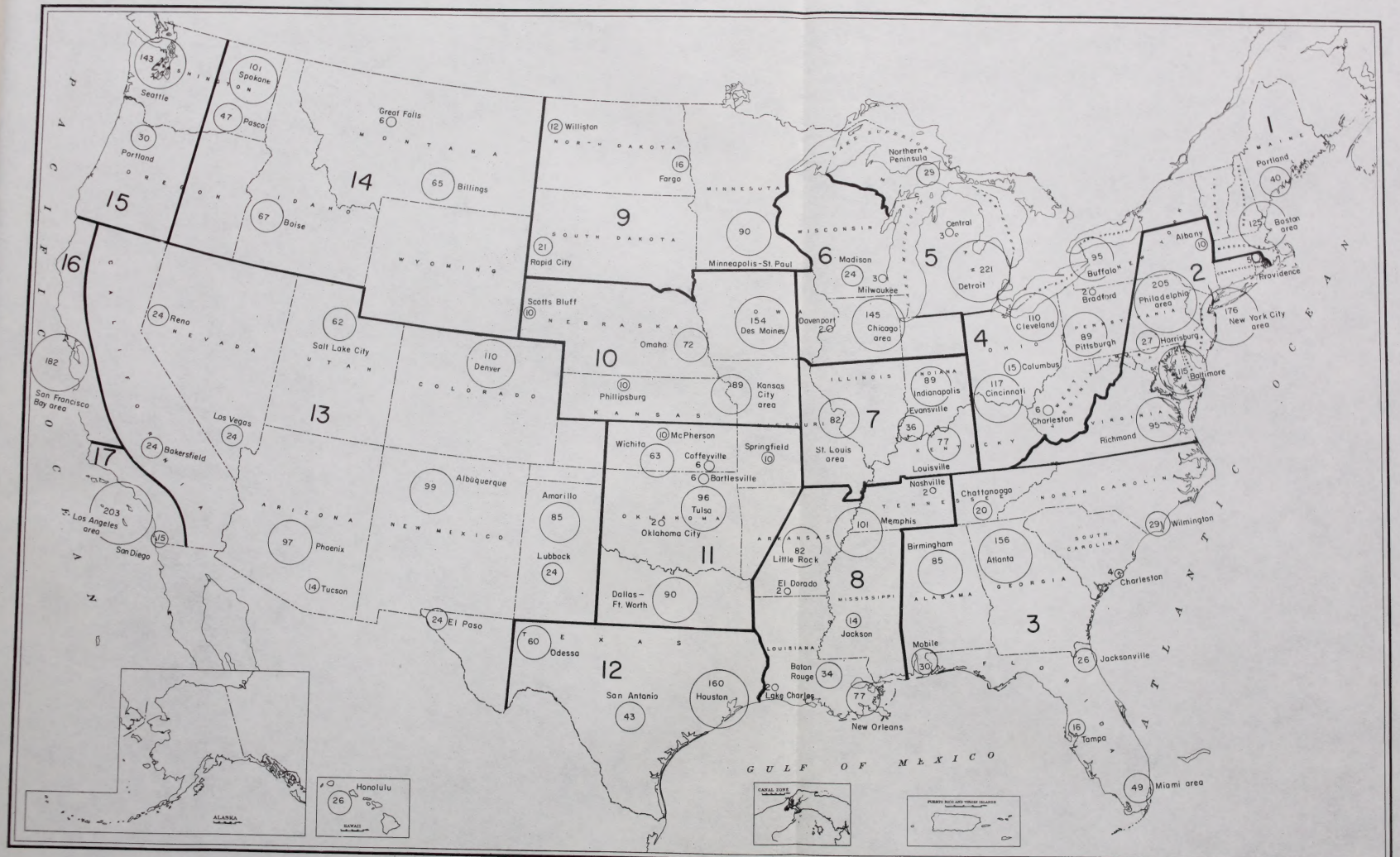

FIGURE 5.— Map Showing Locations and Numbers of Samples for the National Motor Gasoline Survey, Summer 1972

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3 0112 084235891